OUTHERN OMOTIVE OURNAL

PASS IT ON!

OWNER

GEN. MGR.

SERV. MGR.

PARTS MGR.

FOREMAN

SHOP

February, 1950



Perfect Circle GX "Oil Stopper" Steel Oil Ring, as seen in NATIONAL PUBLICA-TIONS by millions

Seen by Millions-Used by Millions!

The Perfect Circle Sectional Steel "Oil Stopper" illustrated above has been seen by millions in national magazines. Like all Perfect Circle products, it is known and accepted by motor-wise car owners all over America

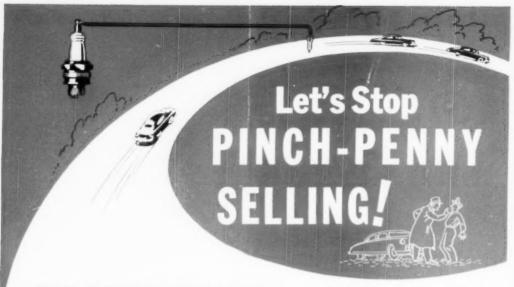
The "Oil Stopper" gives a "star" performance in even badly worn engines. It eliminates oil pumping, increases

power, saves gas and oil, and gives longer life to worn engines! No wonder Doctors of Motors actively express their preference for Perfect Circles by installing millions every year! Let the "Oil Stopper" be your trou-

ble shooter on all worn engine jobs. Ask for it in the Perfect Circle 500-5000 Series.

Perfect

THE MOST HONORED NAME IN PISTON RINGS



WHAT IS PINCH-PENNY SELLING?

Here's one example...to replace a set of spark plugs—and not replace the old ignition wires is pinch-penny selling. New spark plugs can't give peak performance through old wires, (see table at right).

When the customer comes back still having trouble, and you ask him to pay for new ignition wires, he balks—claims that if they were needed you should have replaced them in the first place. A customer always kicks about paying anything—no matter how little—for a "make-good" job. He refuses to accept your explanation that you were trying to save him money.

It's wrong to sell a man anything be doesn't really need. But it's just as wrong not to sell a customer what he glass need to assure peak performance. Pinchepenny selling gets you into trouble ... costs you business—rule you of profits... loses customers. Therefore, never install new spark plugs without installing new ignition ways.

• The winner, the third and the sixth cars at the Indianapolis Race in 1949 were equipped with Crescent Wiry Joe. They know the difference that good ignition wire makes.

DYNAMOMETER TESTS

Drawe

NEW IGNITION WIRES MAKE BIG DIFFERENCE IN ENGINE PERFORMANCE

The following table gives results of dynamometer tests on a 1935 Oldsmobile before and after installation of a new set of Crescent 90-05 High Tension Ignition Wires.

	Old Wires	New Wires	Increase
Motor RPM	700	1000	42.75%
. Torque	22	27	22.75%
MPH after full load	14	18	28.6 %
Load applied at (MPH)	45	45	
Time required for breakdown from (4) to (3)	20	45	176 07
	Torque MPH after full load Load applied at (MPH) Time required for breakdown	Motor RPM 700 Torque 22 MPH after full load 14 Load applied at (MPH) 45 Time required for breakdown from (4) to (3)	Wires Wires

NOTE No adjustment or replacement other than installation of new Crescent ignition wires were made to the car tested.





THE CRESCENT COMPANY, INC., Powlucket, R. I.

Check the wire and cable on every car!

SOUTHERN AUTOMOTIVE JULIENAL is positioned monothly by W. R. C. Smith Polysisking Co. Marinera, the land Atlanta for U. S. A. Schwerighten value, Frankel States and Franciscopium, F. M. Co. 1988 virger Canada and Enrich Consistence C. Hall per visual finite of the consistence of the Art of Marinera and Consistence of the Art of the A

Volume 30

Number 2

SEAL OUT THE WEATHER

Transparent
Transpared Sealer
Windshield Sealer

Makes windshields leakproof to rain or snow. Always is crystal clear, colorless and pliable.



PERMATEX COMPANY, INC., BROOKLYN 29, N. Y.

MCCORD PIPES ALL THES CONSTRUCTION FEATURES



Cold Rolled Electrically Welded

McCord pipes are made from cold rolled elec-trically wolded steel tubing, the finest type of tubing available for exhaust and toil pipe



Wall Thickness

Even wall thickness is an important feature of McCord pipes because the resistance to rust and corresion is equal throughout the length of the pipe.



to Install

Because McCord exhaust and tail pipes are made to blue print specifications and to close telerances installation is easy, requiring loss



Individually Engineered to Fit -

McCord pipes are Individually Engineered to Mrone model of car ar truck. The carrect length and the proper radius on all bends.



No Crimped Bends or Cracks

There are no crimps, corrugations, or crecks in McCord bends that would restrict the free flew of gas and collect deposits that would start corrosion.



Smooth Finish Retards Corrosion

The smooth, hard, all finish of McCord mufflers not only retards corresion, but is an indication of a quality product.

ELL MCCORD EXHAUST and TAIL PIPES

The Replacement Pipe that's SPECIFICALLY ENGINEERED to fit Every Make of Car

New McCord pipes should be installed every time a muffler is replaced. Check the exhaust and tail pipes for rust holes, thin spots, also for places where the pipe may have been flattened retarding the flow of gas.

MCCORD CORPORATION DETROIT 11, MICHIGAN

GASKETS - MUFFLERS - PIPES - RADIATORS - OIL RETAINERS

LLY N

The most startling service jack advancement in a decade

A NNOUNCED but a few weeks ago — this revolutionary jack is already today's biggest seller! And why not! Here is everything you could possibly ask of a two-tonner . . . features that make shop and station owners say: "That's the jack I want right now!"

Look over these major benefits - then see your jobber today. "Feel" its spectacular action . . . get one or several for faster, happier service! Blackhawk Mfg. Co., Dept. J +2 Milwaukee 1, Wisconsin.



BREEZE ALONG as East as Ivia can trot! Its heat-treated along mum alloy frame is feather

CROWN-GEAR" some universal tourit. Operate with a finger twirl on matter what the handle position?



MODEL SJ-18 2-TON CAPACITY

BLACKHAWK

SPECIAL GOOD NEWS FOR CAR DEALERS! This great new task is also available with non-marring wheels for show-room service. Ask for \$1.1kR.

HAND JACKS . WRENCHES . "PORTO POWER" . "RECK-RACK"



greater convenience **BLACK & DECKER'S** ATLANTA, GEORGIA

Now Located at ' 316 TECHWOOD DRIVE, N. W. Phone: Lamar 0431

Sales and Service Branch



At 316 Techwood Drive, N.W. We Offer You . . .

- Convenient Central Location!
- Plenty of Off-Street Parking Space!
- Enlarged Shop Facilities!

Electric Tool Headquarters has increased its facilities in the Southeast area to give you faster, more convenient service on Black & Decker, Van Dorn and Home-Utility products. We have enlarged our shop facilities . . . increased our stock of all genuine replacement parts . . . and our expert repairmen are ready to give you quick "factory" service at a more convenient location . . . all in our own brand-new building. There's ample, easy, offstreet parking in our private lot. And a big, modern showroom carries a complete display of all our world-famous products. Factory service from company-owned-and-operated branches convenient to customers was an innovation with Black & Decker in the electric tool industry!

ELECTRIC TOOL HEADQUARTERS

Other Service Branches in the South at Charlotte, Dallas, Houston, Memphis, New Orleans, St. Louis, Cincinnati

VAN NORMAN

opens up the Top-Quality Line of AUTOMOTIVE DRILLS...TAPS...DIES



The Best-Equipped Shop Gets the Business!

ther's why"<u>It Pays to Van Normanize"</u>

SELF-CONTROL STARTS HERE



AND TO RESTORE
ENGINE PERFORMANCE

OIL-CONTROL STARTS HERE

To Stop Oil-Pumping, Replace Worn Engine Bearings

When an engine is sluggish on pick-up and always seems to drag that means oil pumping—and oil pumping means worn connecting rod and main bearings. Worn engine bearings let excess oil reach combustion chambers. It burns to motor fouling carbon on pistons, spark plugs, valves and rings. The best of new rings can't control oil pumping caused by

worn bearings. Correction starts where the trouble starts. Always check for and replace worn bearings. To restore power, pep and economy, replace in sets with Federal-Mogul Oil-Control Bearings. They are engineered for the job!

FEDERAL - MOGUL SERVICE
|Division of Federal-Mogul Corporation|

DETROIT 13, MICHIGAN

control oil-pumping where it starts—REPLACE WITH

FEDERAL-MOGUL





FOLLOW THE LEADER!

THE CHOLDUN 1950 PROGRAM AND CHOLDUN EQUIPMENT MAKES MONEY FOR YOU!

PRESSURE PURGER for Cleaning Cooling Systems



Dramatic, Impressive and Effective Your customer can SEE the rust scale, grease and grime as it is purged from the Radiator and Motor Block.

Visible tumbler cleaning action, with continuous reversing motion, loosens, dissolves, purges and filters all harmful engine wearing particles.

OIL CHECKER, CHANGER and FLUSHER



Out with the old oil — in with the New-Your customer sees the dirry, "tired" oil and you sell new, "lire," fresh oil and get extra profit for a flushing job. The CHOLDUN OIL CHECKER, CHANGER AND FLUSHER IS a money Maker.

The attractive white enamel unit brings you Customers and builds good will and profits.

PURGITE CHEMICAL (to be used with Pressure Purger)



Do not confuse PURGITE with the ordinary caustic and acid type of radiator cleaners.

PURGITE is the "10" chemical cooling system cleaning Compound. It is a water softener. It removes rust scale, lime, iron and metallic deposits. PURGITE dissolves grease, tar, oil and dirt. PURGITE will not harm radiator, hose, aluminum, motor block, hands, cluther or finish on your car.

Choldun



MANUFACTURING CORP.

New Haven. Conr.

SALES OFFICE: 11 WEST 42 STREET, NEW YORK 18, N. Y. EXPORT OFFICE: 238 Main Street, Cambridge 42, Mass.

SPRING PRESSURE PURGE MANUA ANTI-PRESERVE NOW Decal Easy to apply to door or window. Service Manual. 3. Radio Scripta. Mats for local newspaper advertising. State for focal newspaper saverbeng.
Dealer Mailing Literature.
Catalogn Sheets.
Outside Banner—Day-Glo Lettering—3' x 5'.
Over 1,000,000 Trade Publication ads. Window Displays. FREE ADVERTISING CAMPAIGN TO BRING YOU NEW SERVICE CUSTOMERS

CHOLDEN MANUFACTURING CORP.

11 West 42nd Street New York 18, N. Y.

Please send complete details on the "PRESSURE PURGER" and "OH, CHECKER CHANGER and FLUSHER,"

Please arrange for a Free Demonstration of this equipment.

Name

Address

City

Zone State

To the same of the

You've Go! to Give to Get Charlie Claims

Reading Time | min_ 48 tec.



MANUEL BUILDING

Thirty odd years ago, much of America's "personal transportation" depended upon the speed and endurance of horses. This was especially true in the small Midwest community where Charlie was born . . . and still fives. But Charlie was progressive. He liked automobiles. At twenty, he was driving a taxi and wondering where that would take him. He didn't yet realize what the quick, efficient service of automobiles was going to mean everywhere.

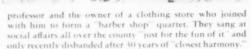
The busier Charlie got, the more he thought about the growing need for this type of transportation. His passengers, too, often spoke of the coming days when they hoped to have cars of their own. "Um-m," mused Charlie, "Why wouldn't automobiles be a good business for me?" And suiting the action to the thought, he went to see a local automobile dealer who figured that Charlie ought to make a star salesman.



"It didn't take long to see that there's where I belonged," Charlie recalls, "for I made more money than ever I dreamed of as a taxi driver,... and I saved it, too! Some years later, when the first Chrysler cars were introduced in 1924, I scraped the very bottom of my financial barrel to qualify as a Chrysler dealer in my own right. I'd learned how to run the business pretty well, and I guess my record as a salesman helped when I talked with the Chrysler sales executives.

"I've been selling and servicing Chrysler and Plymouth cars ever since. It's been a pleasant and productive quarter century. In our community of 15,000, a merchant gets to know folks mighty well. We not only work but play together."

Charlie tells of his long friendship with a leading grocer, a college



Charlie doesn't tell of his patriotic work during the anxious war years when the citizens of his town



drafted him as Mayor and Municipal Judge. But his story is a good example of why America has become great. There are hundreds of such closely-knit communities where business men who serve their neighbors well have prospered. Such men make their own careers, and serve to strengthen our nation.

Weste for our free booklet containing a manher of these stories of accomplishments by enterpring men. Christer Corporation '14 Massachusett Ave., Highland Park 1. Michigan

Chrysler Corporation

Chrysler Corporation

PLYMOUTH - DODGE - DE SOTO - CHRYSLER - DODGE "Job-Rated" TRUCKS
Fine Cars of Great Value

MOOG FULL POWER



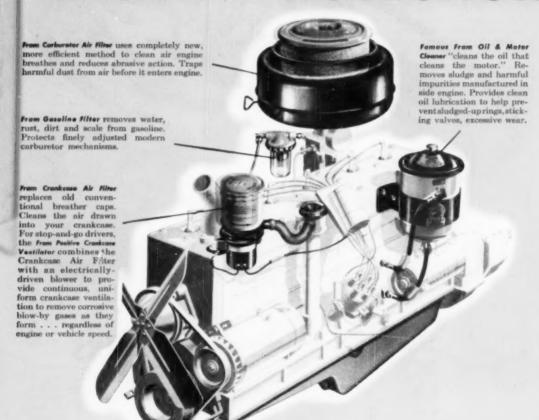
Stops COSTLY COMEBACKS

Winning teams have the right combination that insures Full Power performance. Use the right combination to get a Full Power motor reconditioning job—Moog X-Plus Piston Rings installed on pistons dynamized by the Moog Dynamizer.

MOOG PISTON RING CO., ST. LOUIS 14, MO.

Fram 'SEE YOUR DEALER" Campaign puts motorists' eyes on you for

ENGINE PROTECTION





FRAM GIVES YOU
WESTERN UNION
OPERATOR 25
DIRECTORY SERVICE

Be a Fram Dealer and have your name listed with Western Union Operator 25. The most powerful ads in Fram history will urge motorists to call Western Union by number and ask for Operator 25 for the name and address of their nearest Fram Dealer. In 20,000 communities across the nation consumers will call their local Western Union office for information on where to buy. Calls in your area are referred to you when you're a Fram Dealer.



BATTERY OF POWERFUL MAGAZINE ADS... Big Spreads and Full Pages month after month in Saturday Evening Post, Collier's, Popular Science sell hard on the story of Complete Engine Protection. They pound the local angle... your angle... tell motorists to call Operator 25 for your name when you're a Fram Dealer. Post and Collier's sell the mass market with simple, understandable words and colorful impact. Popular Science nails the mechanical-minded prospect with technical facts. All these buyers are turned over to you'



GIANT SILIBOARDS... on arterial highways in every state across the nation. These big, colorful, handpainted bulletins remind motorists to call Operator 25 for your name. They give powerful display to Complete Engine Protection. Do the same yourself . . . Display Fram in your own windows for that extra punch that tells buyers, "You're Here! This is your nearest Fram Dealer!"



SALES-MAKING MERCHANDISING CAMPAIGN... In 1950, Fram gives you a new, better than ever merchandising campaign to help you sell... posters, banners, displays, merchandisers, booklets, uniforms and more Get the whole story from your jobber. Fram backs you up with a sales training program for you and your men... a full-length sound color movie that gives you the inside story of Complete Engine Protection and the sure road to sales success.

That's only the beginning...

but it will give you the idea on how Fram's greatest campaign . . . the "SEE YOUR DEALER" campaign, focuses on you . . . how it sells hard in many markets, in many ways with scientific advertising that is unmatched in the field . . . how it rounds up prospects in every corner of your area and then tells them where to buy . . . from you, Cash in now and ride the profit highway with Fram. See your jobber and get started with this 1950 campaign that puts you out front!



FRAM CORPORATION, PROVIDENCE 16, R. I.
IN CANADA: J. C. ADAMS CO., LTD., TORONTO, ONTARIO

why gamble on gadgets

RUST MASTER products are

SURE TO SELL

Why stock your shelves with slow-movers? Why take a chance on trick gadgets and "cure-alls" that cost both you and your customers worry and money?

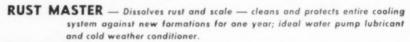
Rust Master automotive chemicals are proven.

They give peak performance in every car —
every time. They're backed by years of successful experience and millions of satisfied customers.

So put your money on a sure winner. Sell Rust Master with confidence and without unnecessary gadgets. You're *sure* to be ahead in sales, profits, repeat business.



Rely on Reliable Rust Master Products— Your Profits Do!



SIX MASTER — The perfect chemical pep-up and tune-up. Dissolves carbonsludge and gum, thus increasing power and pick-up. Saves on battery and gas and oil consumption. Excellent crank-case anti-freeze.

LEAK MASTER — New improved patented Stop Leak. Harmless to all metal or rubber. Retards rust and improves water circulation.

NO FUSS • NO MUSS
JUST POUR • NO MORE

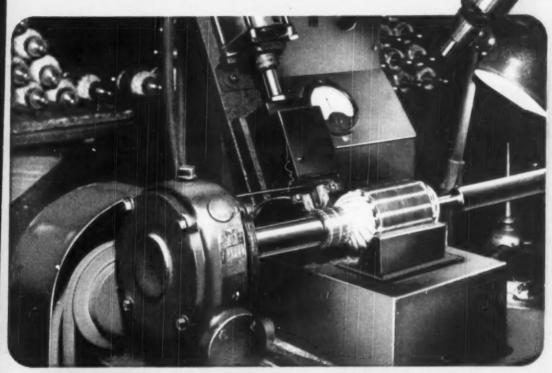






Tested Quality HELPS YOU DELIVER

AMERICA'S FINEST ELECTRICAL SERVICE



AUTO-LITE
SERVICE PARTS

Before and after armotures are impregnated in insulating varnish and baked, they are tested to insure freedom from imperfection including shorts, grounds and incorrect connections in the winding.

Your established reputation is your most valuable asset—an asset you can protect only when your fine workmanship is matched by parts of unfailing quality. It costs real money to get customers. You can hold them for continued volume and profits only when you deliver full satisfaction . . . that's

why it's so vital you combine your honest workmanship with the tested quality of Auto-Lite Original Factory Parts. The importance of this quality is proved by this fact: more than half of America's car

than half of America's car makers specify Auto-Lite. To find how Auto-Lite can help you write to

THE ELECTRIC AUTO-LITE CO. - Parts & Service Division - Toledo 1, Obio Canadian inquiries should be addressed to Sarnia. Ontario

Auto-Lite Engineering Assures Dependability





ENGINEERED SPECIFICATIONS ... scientifically developed for every part Nothing left to chance. High quality assures dependability.



CONTINUING IMPROVEMENTS
by the foremost engineers working in one of America's great



APPROVAL OF LEADING CAR, TRUCK, AND TRACTOR MAKERS as original equipment, after



FINISMED PRODUCTS TESTS
every component and assembly
passes repeated tests, checked constantly with laboratory research

Money cannot buy better Automotive Electrical Equipment



5½ million cars sold in '49!

Out of this overwhelming figure a gigantic market is yours for the taking! One big-three manufacturer reports that 75% of their lower priced cars are shipped WITHOUT RADIOS. By an average of the four post-war years for all models of cars made by this manufacturer, the number of cars shipped without radios totals 85%! This added to other production figures from the auto industry represents a terrific market for America's favorite auto radio—Motorola, of course!

Again this year Motorola development, design and production of auto radios lives up to the Motorola tradition of high quality. Again, tireless product research combined with mature engineering techniques pay off for you—pay off for your customers! Unfailing power, 3-dimensional Golden Voice tone, and precision construction that minimizes servicing are the qualities your customers seek in auto radios. Feature Motorola and you feature these profit-producing qualities!

40 million families read about Motorola every month!

And they're buying families every one! They're the people who read such powerful national magazines as LIFE, THE SATURDAY EVENING POST, COLLIER'S, TIME, NEWS-WEEK, LOOK, NEW YORKER, NATIONAL GEOGRAPHIC, SUNSET, COUNTRY GENTLEMAN, FARM JOURNAL, SUCCESSFUL FARMING and others—believed in by folks in all walks of life. Tie-up with Motorola—a product that's believed in—backed by big-name national publications!

for more sales, contact your Motorola distributor today!



the BEST is now BETTER than ever before

is BIGGER THAN EVER!

Motorola is tremendous!

new 1950 models are the best ever

Motorola—with more "FIRSTS' than any other, now presents a brand new line for '50! Always the standard for the industry, the new Motorola auto radios give your customers an even greater measure of value for their radio dollars . . . and promise you a year 'round source of easy sales and trouble-free profits! Action now will ring your register later!

MAVE FUN WHILE YOU DRIVE WITH

Motorola

use this

display-demonstration

board and you'll sell

everybody knows and prefers

ARE SHORTER
AND SWEETER
WITH Motorola

RADIOS - AUTO RADIOS

OTOROLA INC. . 4545 AUGUSTA BLVD. . CHICAGO SI, ILLINOIS



You Can't Miss

PACKARD AUTOMOTIVE CABLE

Packard cable is the sure shot answer to all your wiring requirements. It's the best there is . . . chosen as standard equipment on more cars, trucks and buses than any other make. Packard cable is widely distributed, nationally known. It's easy to stock, easy to sell. The clearly marked cartons give you complete size, gauge and application data at a glance . . . are self-displaying, keep cable clean and ready for instant use. Order Packard cable and be sure of hitting the mark with the right size cable for the right job every time.

HIGH TENSION CABLE—Packard's Four-Forty and Lac-Kard high tension cables are known for dependable performance on every make and model vehicle in every type of service. Available in spools and sets.

gives definitely superior performance

. . . is tougher . . . lasts longer—at no

increase in price.

BATTERY CABLES—Packard full-size battery cables assure fast cranking and quick starts, together with long life. They are available with your choice of the LeadAlloy terminal or the leaded brass terminal.



FOREMOST BUILDER OF AUTOMOTIVE AND AVIATION WIRING

IMPORTANT ANNOUNCEMENT!

FOR A LIMITED TIME ONLY, we are offering your a Special Deal at a greatly reduced price and added profit! In addition, this Deal can make you the Tite Pressure Expert of your community. National advertising will direct customers to your door to get (1) ease of steering; (2) riding comfort; (3) safety with long, trouble-free tire mileage. You get with customers, build repeal customers.

Here's All You Have To Do:

- Memories this formula for amounts prosones in Hos or Cool Tires.
- Had fires small frind smalls driving, counting a harrow on presume hald-up almost the recommended roof threptocoute. In Care driving it is \$100. In Highway driving it is \$100.
- Cand tires reads from availing stilling at least two, i.s. hours, after which they may read your availing travelling only a short sarghhudbook distance with one carry presente building.
- All you need to remaining their to their ("and "0" and what they
 represent when an arrycling time.

This sough formula plus the saxs inventarious found in the Deal Community was a story at beaution to your community

- 2 Order Nove this Special Projection Line contaming
- A Marter Count—in which the parameted return day time presently graphing devices.
- 200 new Present Lie Burnous—symmed manufuls serve as proper an presente transition.
- 200 No. 880 Valve Face—to vortistve against air low through valve stem.
- d 10 No 5050 Passenger For Congressor your commerce personal use

AND YOU OWN THE MASTER GAUGE

PLUS: Window Streamers, Counter Leaflets, Mailing Rieces (in the unit) and powerful National Adver-



CALL YOUR SUPPLIER NOW OR MAIL THE COUPON TODAY TO—

A. SCHRADER'S SON

Division of Scovill Manufacturing Company, Incorporated

BROOKLYN 17, NEW YORK

A. SCHRADER'S SON, Brooklyn 17, New York

Send no at one the No. 4471 Unit or described at \$19.50.

None

34000

Carrier .

State

Mic marinhor common co

Address

SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950

BIGGER THAN EVER-Your Rubbermaid Kar-Rug



March 11, 1950

Rubbermaid KAR-RUGS

Belong" in Your Car!

To Protect Floors from Dirt and Wear Dress up Interior in Colorful Beauty

MARCH 11TH

THIS OPENING SMASH IN THE 1950 BIG NATIONAL PROGRAM IN POST AND COLLIER'S!







To Help YOU Cash-in on this TREMENDOUS PROFIT POTENTIAL

The market is wide open — 95% of the nation's 34,000,000 cars need Kar-Rugs. Car owners see Kar-Rugs and buy them!

SELF-SELLING DISPLAY RACK

Attractive "but front" where customers are reminded—get the sales story fast—picture Kar.Rigs in their car, Compact yet ample to display all stress and colors and corry stock on center shelf. Put this in a good traffic spot and sell MORE Kar-Ruar. Ask year jobber!

Cash in with
these
SALES BOOSTERS

NEW "SETS OF FOUR" PACKAGE

"yo assertments that fit all populer cers. Make every sale a "set of four" for faster turnover, higher unit sales. As tractive display parkage makes fine gift suggestion. Casy to stock and handle—assures proper sizes and telors for quick service. Ask your jobber!

MORE THAN EVER

Rubbermaid KAR-RUGS

THE WOOSTER RUBBER CO. . WOOSTER, OHIO

In Canada: Rubbermaid Products,

Perente. Onterio

Division 5



WIRRING COMBINATIONS

YOU and UNITED MOTORS

DELCO Batteries
AC Gauges, Speedometers and Rebuilt Fuel Pumps
DELCO Auto Radios
SAGINAW Jacks
MORAINE Engine Bearings
DELCO Radio Parts
HYATT Roller Bearings
DELCO Home Radios
and Television
INLITE Brake Lining
DUREX Gasoline Filters

HARRISON Heaters
DELCO Shock Absorbers
NEW DEPARTURE
Ball Bearings
GUIDE Lamps
HARRISON Thermostats
DELCO-REMY Starting,
Lighting and Ignition
KLAXON Horns
HARRISON Radiators
ROCHESTER Carburetors
DELCO Hydraulic Brakes

For our part, here's what we bring to the twinning combination: products that are used as original equipment on the country's leading cars, trucks and buses; products that are in use on so many millions of vehicles today that the parts-and-service potential is almost limitless; products whose preferential position insures a strong and continuing market, month after month, year after year. If you are interested in a permanent business, with year-round profits, talk to your United Motors distributor, or write directly to us.

UNITED MOTORS SERVICE

Division of General Motors Corporation General Motors Building, Detroit 2, Michigan



take a Good Look at

KENT-MOORE'S NEW

SERVICE MERCHANDISER!



"PLUS-VALUE" FEATURES!



SECTIONAL UNIT CONSTRUCTION — Permits unusual flexibility of arrangement to fit your particular service department. Sturdily built, Quickly, easily assembled.

2 COMPACT, FUNCTIONAL DESIGN —Completely assimbled Merchandiser measures only 53½ high by 97½ long by 32 wide at bench. And nearly every cubic inch is usuable storage or working area space.

3 CONVENIENT CENTER TOOL PANEL — Perforated to hold tool clips and hangers. (Roll-away aluminum curtain with lock, and fluorescent lighting, available as optional equipment.)

LARGE WORKING SURFACE—Measures full 48" long by 30" wide. Bench top completely protected by thick tempered Masonite cover. Deadens sound!

COMPLETELY ENCLOSED WORK BENCH—48" x 32" x 34". Plenty of storage space inside with provisions for optional drawers and shelving. Locking doors feature exclusive Torsion bar hinge and frame construction for extra strength and rigidity.

SPACIOUS END STORAGE CABINETS.—With perforated back and side panels for tool clips and hangers or for shelving. Exclusive torsion bar door construction.

Here it is, Dealers! Just what you've been looking for to snap up appearance and spark increased efficiency in your bustling service department. It's the new Kent-Moore Service Merchandiser... smartly styled, sturdily built, functionally engineered to provide maximum utility for your service operations. Yes, take a

good look... at its gleaming white baked enamel finish, its bright red trim. Bound to make a good impression on your service customers! Note its compact design, its sectional unit construction. Fits in almost any desired location, gives you complete flexibility of arrangement in single or continuous line installation. Check its rugged construction. Made of heavy gauge metal that'll stand up in use, take lots of abuse. Storage space? Plenty of it ... on the center tool panel, in the big roomy end cabinets, and in the work bench itself. Doors swing freely, fit snigly, lock securely, too. And as for work bench surface area, just measure it. 48° wide by 80° deep, completely protected by a durable tempered Masonite cover. Now for price ... the best news of all! So surprisingly low that you can't afford to pass it up. Act now! Write for complete information today!

". Then look at its amazingly loo

Kent-Moore \$2109

ORGANIZATION INC

GENERAL MOTORS BUILDING . DETROIT 2, MICHIGAN

Engineers and Manufacturers of Special Automative Service Societies of Egypment Sales and Service Engineering Representatives in François Ches Court to Court SERVICE BUILDERS

QUALITY



AC SPARK PLUGS ... with patented CORALOX Insulator

Demand is rising swiftly as the powerful CORALOX advertising campaign increases consumer preference. CORALOX, plus AC's dominant equipment position, makes AC Spark Plugs a "must" for service dealers who want real replacement volume.

AC OIL FILTERS

AC OIL FILTERS and ELEMENTS ... "Dirt-Proof" Engine Oil

AC's "Dirt-Proof" campaign not only sells the need for oil filters, but also sells the superiority of AC Filters and Elements. Cash in on the industry's fastest-growing replacement market.

C AC FUEL

AC FUEL PUMPS ... "Heart of the Fuel System"

The most popular of all equipment and replacement units. 40,000,000 in daily use. Should be replaced every 2 years to keep your customers out of trouble. Don't overlook the big profit possibilities in your territory.

AC CABLE & CASING

AC SPEEDOMETER CABLE-CASING ASSEMBLIES

Patented machines and processes make AC Cables and Casings tops in quality. Conveniently packaged for quick service. Original equipment on half the cars on the road.

AC AC AIR CLEANERS

AC AIR CLEANERS and ELEMENTS

Here's another replacement market in which AC is the big name. Heavy-duty cleaners for cars, tractors and trucks. Low-cost renewal elements that save time for you and provide new cleaning performance for your customers.

AC FLEXIBLE LINES

AC FLEXIBLE GASOLINE AND OIL LINES

Assortment available with attractive Wall Merchandiser. Make-up Kit, complete with hose and assortment of fittings, also available. All lines built to highest quality and SAE standards.

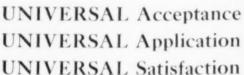
AC GASOLINE STRAINERS

Made in both replaceable an

Made in both replaceable and re-usable element types. AC quality throughout—protect delicate carburetor parts—remove water, dirt and lint from fuel.

AC SPARK PLUG DIVISION . GENERAL MOTORS CORPORATION

Guide FOG LAMPS



They're good because they're Guide—compact, durable, high-quality through-out—undoubtedly the highest development in the field of automotive optical science for the improvement of visibility during adverse weather conditions.

Packaged in pairs, with interchangeable mountings for attachment to splash pan, bumper bracket or front fender, Guide Fog Lamps fit all makes and models of ears and trucks.

And don't overlook the *profit* angle! Any item so universally accepted as a pair of Guide fog lamps can light the way to *profits* as well as to safety!



GUIDE LAMP—A UNITED MOTORS LINE
Available Everywhere Through
UNITED MOTORS DISTRIBUTORS





Guide MULTI-PURPOSE LAMP

Here's a four-way winner! It's a combination Trouble Lamp, Spotlamp, Floodlight and Sealed-Beam Headlamp replacement unit. Plugs into cigar lighter . . . just demonstrate it in some of your customers' cars and note how easily it sells itself!

Guide LAMP

Division of General Motors Anderson, Indiana



Dealer and Repair Shops are assured of finer quality, better fit and greater value in this group of motor parts produced only by basic manufacturers.

Go to the jobber who features the lines shown here - they are all leaders in their field, backed by manufacturers with facilities to produce the best the market affords. They are represented in the South by the Hirsig organization.

Other leading lines of automotive merchandise represented by Hirsig are: ANCO Mirrors. Blades — AUSCO Jacks — B & B Heaters — CAMEL Patches — CASCO Products — CLEVELAND Meaters — CAMEL Patches — CASCO Products — CLEVELAND Tire Chains — DURO Tools — ELECTROLINE Lights — FRAM Filters — CEARY HERSHEY Front End Parts — HERCULES Universal Joints — MUFFMAN Measures — KIMBLE Glass — MITY MIDGET Sanders — MONROE Shock Absorbers — RUSTMASTER — SUPAR Tire Pumps Breezies — SUPERSTAT Thermostats — SUPERSTAT SUPERSOR Shock Absorbers — THERMO Anti-Freeze — THOR Batteries — TYSON Bearings.

MANLEY VALVE CORPORATION MANLEY Motor Intoke and Exhaust Valves

MICHIGAN Engine Bearings

DETROIT ALUMINUM &

TRIPLEX CORP OF AMERICA TRIPLEX Alloy Pistons

BRASS CORPORATION

WICKWIRE SPENCER STEEL CO. WICKWIRE Clutch Springs-Valve Springs

-Starter Springs Hose Clamps Mechanics Wire-Chain Repair Links

LINMAR PRODUCTS CORPORATION LINMAR Water Pumps Oil Pumps

FISHER PRODUCTS COMPANY FISHER Carburators Ford Distributors Clutch Pressure Assemblies

BEARING COMPANY OF AMERICA BCA Clutch Release Bearings-Radial Ball Bearings-Wheel Bearings

Hirsig men, located in 17 cities throughout the South, help jobbers de-liver the best possible tive dealers of the South.



M. HIRSIG & CO. Jacksonville 2, Florida LAWRENCE



MORE PROSPEROUS 1950 ... ATTEND THE

SOUTHWEST AUTOMOTIVE SHOW



... theme of the 1950 Southwest Automotive Show

More than 250 progressive Southwestern jobbers bring this industrially important show to the automotive trade of this territory.

Be sure to attend

FREE TICKETS ARE AVAIL-ABLE FROM YOUR OWN SPONSORING JOBBER.

ACTION.. NEW PRODUCTS.. CONTACTS.. PROFIT-MAKING IDEAS

Assembled here under one roof is the greatest exhibit of automotive products, equipment and tools to be seen outside of the National Show. It presents untold profit-making opportunities for manufacturer, jobber, dealer and service organizations.

Whatever your stake in the Automotive Service Industry, there's plenty to attract you to this show. Whether it's new business opportunities, cost-reducing tools, or shop equipment you seek, you'll find it at the 8th Annual Southwest Automotive Show. Set your goal now to attend!

In Beautiful Romantic SAN ANTONIO, TEXAS MARCH 23-24-25-26, 1950



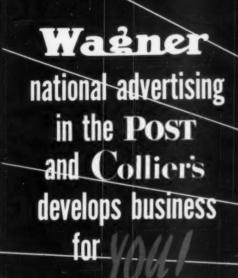
IN THE NEW COLISEUM

For Housing Reservations and Show Information

Insurance Building • San Antonio, Texas

ASANTA FE AMARILIS OSLANISHA CON SOPE SALENDE A SAN ANTONIO

ALL ROADS LEAD MARILIS OSLANISH OSLANISH





It pays to be identified with Wagner Lockheed—the best known name in brake service products.

Year after year Wagner has run colorful half-page ads in the Saturday Evening Post and in Collier's. (One of these ads. running currently, is reproduced in miniature at the right.) These two great national magazines have a combined circulation of over? million copies per issue, and a readership of more than three times as many millions.

Many of the people who see the Wagner ads are YOUR customers. They live in your neighborhood—they drive in and out of your place of business. Cash in on this great promotional program.

You'll find Wagner a great name upon which you can build a profitable business. See your Wagner jobber roday. Find out how convenient and advantageous it is to get all your brake service products from one source. There's a jobber near you who can supply the complete line of Wagner Lockheed Hydraulie Brake Parts and Fluid, and Wagner CoMaX Brake Lining in every type and size you need.... Ask him, of write us, for a free copy of Wagner Catalog AU-500.

Wagner Electric Corporation

Harr



If you answer "yes" on any point
...play safe...have your brakes
checked now! If replacements
are needed, for safety's sake
specify...

Wagner Lockheed
HYDRAULIC BRAKE
PARTS AND STARKE

PARTS and FLUID and CoMaX BRAKE LINING

We gave forthern seen Wegger speaker, but the water forthern seen and an original recommend to the kind and an original recommend. You can get brake service—where Wayne persons are read or read or read unglifted and if the the contrast when you are to the contrast when you are the contrast w

Washer Electric Corporation

m: WE

PRANCISMOS ARE SERVICE OF THE TAREST AND THE TAREST

You can depend on Wagner quality because Wagner products are used as original equipment by automobile, truck and trailer manufacturers

WALKER



WALKER OIL FILTERS

it pays to be identified with Walker



WALKER Electric LIFTS

BOOST YOUR SALES ... BOOST YOUR SERVICE VOLUME

... MAKE MORE SALES EACH DAY





with the most powerful name in Exhaust System service

You, as an Authorized Walker Dealer, van offer your customers the finest of all exhaust system services—a Walker Sileneer "Individually Tuned" to each particular car make and model for freedom from noise fatigue... for safety from dangerous exhaust fumes... for peak engine performance. With years of consumer advertising in The Saturday Evening Post... with sales-making, point-of-sale identification... and with periodic merchandising programs, Walker helps you make real money in mufflers.

with America's newest, finest Oil Filter

It's easy to self Walker Oil Filters because it's easy to show your customers how the patented Walker Laminar construction gives real engine protection by keeping the oil clean between oil changes. This exclusive principle of multiple filtration—surface filtration, depth filtration and progressive filtration—cleans oil better, keeps it clean longer. Make this your best, most profitable oil filter year with Walker—America's newest, finest oil filter.

... DO MORE JOBS EACH DAY







with Modern Jacks engineered for today's modern service

In the shop, on the driveway and out on the road, there is a Walker Jack to meet your every need. And in this complete line, there is a Walker Jack to serve your customers' every purpose. In each of these new, improved, deluxe jacks you will find an extra margin of strength for the unexpected... an extra margin of safety for greater protection... an extra margin of power when emergency calls.

with the lift that's always "Open for Business"

Increase service volume and profits 20% to 50% with the advanced, new Walker Electric Lift. New positioning of the support beams increases unrestricted working space by 36%. Six extra inches of working height give you even greater working convenience. From floor to ear bottom, your men and equipment work free from any obstruction in the famous Walker Open Work Zone. And you can locate it wherever you want it—at the lowest installation cost of any lift on the market.

WALKER MANUFACTURING CO. OF WISCONSIN Racine, Wisconsin

.. BOOST YOUR PROFITS WITH WALKER IN 1950





18 issue, out February 15.



Beginning with the March issue, out February 15.

How do you like that? Now you have the most wanted seat covers in America being made even more popular by the terrific power of full color half-page advertisements in THE SATURDAY EVENING POST and HOLIDAY. It means you'll sell more Howard Zink seat covers than you ever did-and already you and thousands of other dealers are selling more Howard Zink seat covers than any other make in the land.

Want to know more about the wonderful Howard Zink 1950 line? Want details of the Howard Zink 1950 program for dealers? Just write us!

Joward Zink

D-PERFECT-

TRADE MARK



WHEEL WEIGHT YOU'LL BE PROUD TO RECOMMEND

- * Stays Put
- * Fits all Cars*
- ★ Streamlined Design
- * Unequalled Beauty
- * "U" TYPE—A favorite in the industry Fits ALL rime having factory frim rings except late model
- * "C" TYPE—A FLAT weight which "lays close "Fits most rims with regular factory frim rings Made in E sizes
- * "SPECIAL" TYPE-Made for late model Cadillacs with hub caps covering entire wheel 6 sizes



PERFECT EQUIPMENT CORP.

Manufacturers of Wheel Weights for Trucks and Passanger Cars





SNAP-ON TOOLS CORPORATION

8052-B 28th Avenue Kenosha, Wisconsin



HOW TO BE A PROFITEER

...in one easy lesson

profits primer

STOCK PLASTIC GLOSS

Self what every motorist wants! It's Plastic Gloss. Your customers will tolerate no substitute for this amazing automobile polish!

PUSH PLASTIC GLOSS

Display it, talk it, push it! Every motorist is a prospect — a sure fire customer if you'll tell him the truth, the whole truth about Plastic Gloss!

BANK THE PROFITS

Stock up during the pre-season Free Goods Deal. Be a profiteer? Get that 133-1-3 per cent profit for yourself. Time's growing short. Order your deals now.



Remember, the Plastic Gloss Free Goods Deal for Profiteers Positively Ends February 28, 1950.

WHICH PROFIT MAKING DEAL FOR YOU? ORDER FROM YOUR JOBBER NOW Special Deal No. 1 Regular case — 24 pints 8 30.00 818.00 \$ 12.00 SPECIAL CASE—24 pints 8 35.00 \$18.00 \$17.00



Regular case — 24 pints SPECIAL CASE—24 pints plus 4 pints FREE	\$ 30.00 \$ 35.00	\$18.00 \$18.00	\$17.00
Special Deal No. 2 3 Regular Cases — 72 pints	8 90.00	\$48.60	\$ 41.40
3 SPECIAL CASES—72 pints plus 12 pints FREE	\$105.00	\$48.60	\$56.40
Special Deal No. 3	\$180.00	\$90.00	# 90.00

BUFFALO PLASTIC FINISH CO., INC.

152-154 OAK ST.

6 SPECIAL CASES-144 pints 8210.00 plus 24 pints FREE

BUFFALO 3, N. Y.

\$90.00 **\$120.00**



That's right. Raybestos is America's biggest selling brake lining. Here's why. Raybestos PG Sets provide dealers with the right combination of linings . . . selected from seven different types . . . for each make and model of vehicle. They are proving ground tested . . . and each set is rigidly inspected during manufacture. And Raybestos constantly backs up the dealer's selling effort with full factory cooperation.

THIS CERTIFICATE

is packaged with every Raybestos Brake Set. Use it to increase your volume of brake work.

... AND THIS MESSAGE

"Don't learn about bad brakes by accident! Have them certified safe for driving."

features the certificate month after month in our Saturday Evening Post advertising.

RAYSESTOS-MANHATTAN, INC., Bridgeport, Con





for the proof of performance



FLEXIBLE

Allows easy application around sharp curves of reveals or beads.

WILL NOT CURL BACK

It has "dead stretch" that prevents curl-back when applied.

THIN CONSTRUCTION

Thin — very thin — to prevent
"pile-up" of point when spraying.

CORRECT ADHISION

Just the right grab and holding power but easy to remove without leaving residue.

PROPER STRENGTH
This tape is strong and does
not rip or tear on the job.
NO SWEATING

Humid weather does not cause tape to fall off.

FOR USE WHEN WIT SANDING Wet sanding does not affect holding power of the tape.

APPLIES TO ALL SURFACES
Works equally well on lacquers, synthetics,
undercoats, metal, weatherstripping
or uphalstery.



"Old hands" at paint shop masking like the feel of this new tape...IT'S EASY TO USE!

There is no substitute for trying a product under actual working conditions to determine its merits . . . that's why it will pay for you to use DUTCH BRAND Masking Tape. You'll find all the features you desire in a tape for speedy application and top performance.

The manufacturers of DUTCH BRAND Masking Tape have been making electrical tape and other repaint and repair shop items for nearly forty years. During this time they have built an enviable reputation for manufacturing "know-how" and for products that have quality. With this background they developed the new DUTCH BRAND Masking Tape. Another quality product for your satisfaction.

Try this tape the next time you order . . . ask for and insist upon getting DUTCH BRAND.

Order from your jobber . . . today!



VAN CLEEF BROS. INC.

CHICAGO 19, U.S.A.

Now Cheurolet Dealers Leadership with...



FIRST...and Finest
...at Lowest Cost!

You're FIRST with Chevrolet

plan to widen their



Here, in Chevrolet for '50, are the finest values Chevrolet dealers have ever offered to the motoring public

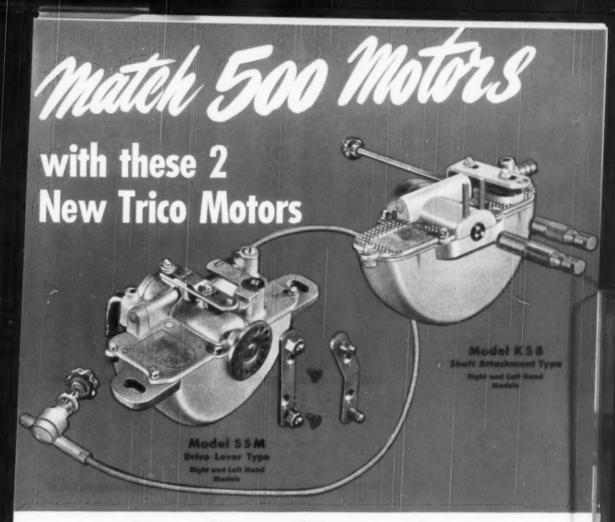
These thrilling new Chevrolets are available in 14 surpassingly beautiful Styleline and Fleetline body-types. They bring buyers and prospective buyers a choice of two great engines with two great drivesthe Mandard Power-Team and the Automatic Power-Leam (at extra cost). And they also combine quality feature after quality feature of styling, riding comfort, safety and dependability ordinarily associated with higher-priced cars, but found only in Chevrolet at such low prices and with such low cost of operation and upkeep

Chevrolet dealers report that people everywhere are pronouncing these new Chevrolets the smartest, liveliest, most powerful cars in all Chevrolet history That means that again this year, as in years past. Chevrolet dealers have the car that is FIRST AND FINEST AT LOW-EST COST'

CHEVROLET MOTOR DIVISION, General Motors Corporation, DETROIT 2, MICHIGAN







...they fit millions of cars dating back to 1932

To enable dealers everywhere to service the tens of millions of Trico-equipped cars now approaching "old age," Trico has developed these two new Universal-Interchangeable Windshield Wiper Motors.

With them...plus a kit of assorted shafts and drive levers...you can match over 500 Motor models dating back to 1932, all originally built by Trico.

Trico Wholesalers carry complete stocks of replacement Linkages, Blades and Arms and will also continue to supply replacement Motors in original equipment styles.

Ask your Wholesaler to show you the Universal-Interchangeable initial stock assortment.

TRICO PRODUCTS CORPORATION, BUFFALO 3, N. Y.



WINDSHIELD WIPERS

Copyright 1949, Trico Products Corporation, Buffalo, N. Y.

CHAMPION ALWAYS SELL MORE



Bea

CHAMPION

SPARK PLUGS

DEALERS

SPARK PLUGS!

Champion Dealer IT PAYS!

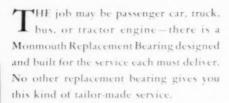
CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Listen to the CHAMPION ROLL CALL . . . every Friday night, over the ABC network

SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950



"Engineered" means-MADE FOR THE JOB



These bearings are made in the world's largest, most efficient and most modernly equipped engine bearing factory. Millions of dollars spent in research assure performance that matches every development in engine design and construction.

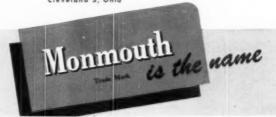
Minute-Man service on Monmouth Bearings and chassis parts is provided by N. A. P. A. Jobbers coast to coast.

For economy and perfect performance specify "Monmouth" when you require replacement bearings.

MONMOUTH PRODUCTS DIVISION

THE CLEVELAND GRAPHITE BRONZE COMPANY
Cleveland 3, Ohio

FOR ENGINE BEARINGS
CLUTCH PLATES AND PARTS
CHASSIS PARTS





NO. 1 TV SHOW!

Now in its second season . . . bigger and better than ever , . , none other than the Texaco Star Theater on television . . . No. 1 in popularity!

Milton Berle, now known as "Mr. Television," is master of ceremonies, and what a man! He clowns his way through a sparkling weekly parade of famous guest stars.

This great show is now televised over 35 stations from coast to coast. Right now - an audience of more than 7 million anxiously awaits Tuesday nights. And the Texaco audience grows in leaps and bounds as the installation of new sets goes on at a rate of more than 150,000 each month.

The Texas Company backs its Texaco Dealers with top promotion . . . television . . . Metropolitan Opera broadcasts . . magazine and outdoor advertising . . . window displays . . . direct mail . . . and other numerous dealer helps.

THE TEXAS COMPANY

NOW FROM 35 METPOROLLI TELEVISED FROM 35 METROPOLITAN AREASI Every Tuesday Night

Atlanta Baltimore Besten Buffala Chicago Cincinnati Cleveland Columbus

Dayton

Detroit

Fort Worth Houston Indianapolis Lancaster Los Angeles Milwaukee New Haven New Orleans New York

Omaha Philadelphia Pinsburgh Providence Richmond Rochester St. Louis St. Paul

Schenectady

Toloda Utica Washington Wilmington

San Francisco TEXACO



MILTON BERLE,

"Mr. Television" himself

No wonder TEXACO DEALERS are such busy dealers!

A Great Line-up for TEXACO DEALERS Sky Chief and FIRE-CHIEF GASOLINES

HAVOLINE and TEXACO MOTOR OILS MARFAK CHASSIS LUBRICATION · PT ANTI-FREEZE · REGISTERED REST ROOMS

"Keynotes" for 1950 -Sales

Note that GM leads the style parade again.

Note that it leads engineering, too, with truly automatic drives available on all GM cars.

Note this smashing presentation of the entire line in national magazines—usually as a big, full-color spread.

Then - note sales of GM cars as 1950 rolls on in showrooms from coast to coast!



ii ali

Annual Control of the Control of the

Padillac

GENERAL MOTORS

The Key Values for 1950



CHEVROLET

POSTIN

OLDSMOBILE

Here you see the five ears General Motors offers for 1950 Each is the product of all the effort and skill of the division whose name it bears But each is bettered by something more

For on top of the individual skills and facilities of each car division, these cars have benefited advances - the production economies which grow out of General Motors' ingenuity.

So we are honestly proud to present the new Chevrolets, Pontiacs, Oldsmobiles, Buicks and Cadillacs as the key values for 1958 Look them over at your local dealer's, try

Gualer Value

CHEVROLET * PONTIAC * OLDSMOBILE * BUICK * CADILLAC * BODY BY FISHER * GMC TRUCK & COACH

announcing THE EIN-WERNER



with Triple-Choice" load contact





for most outom tive bumpers



Hein Werner also manufac-tures Bumper-Liff Hydraulic Jacks for pausenger cars Under Anle Jacks, for tracks and buses. Cylinder Seeve Pallers. Hydraulic Utiliary Univ. Swith Lift and Service Jacks for shop use.

Swift-Lift is the newest and most versatile lift on the market. It offers a choice of 3 load contact points to handle every job suitable to this type lift.

Either conventional hook or exclusive Knuckle-Joint Hook can be positioned for use by simple swivel arrangement. Safe clamp adjustment fits hook to any bumper height. Top Ram Head offers safe, extra-high lift especially useful for tractor and truck body work.

Swift-Lift offers greatest lifting range-from low of 3" to extreme high of 55". It lifts lowest built skirts clear of wheels quickly and easily. Exclusive Knuckle-Joint Hook permits positioning of jack anywhere on bumper regardless of bumper slots.

Call your Hein-Werner jobber or write us at once for full details.

- · Triple choice lift versatility
- · Large steel wheels for easy portability
- Greatest lifting range: 3" to 55"
- Slip-proof H-W safety clamp adjustment
- · Aluminum base, ribbed for extra strength
- · Exclusive Heinite long-wearing piston
- Fingertip release valve regulator
- Tested at 1½ times rated capacity

HEIN-WERNER CORPORATION WAUKESHA, WISCONSIN

HYDRAULICJA

World Bestos World Bestos SCOOP! SOLVES DUTY SOLVES DUTY SOLVES DUTY HEAVING !

SWEEPS THE COUNTRY

for Heavy Duty Trucks, Trailers and Buses

WB

Guaranteed -NO FADE

PLUS: High Friction, Positive Braking . . . Long Life, Reduced Heat Checking

WORLD BESTOS RED BLOCK creates SENSATION!

overload conditions! Glazing eliminated! Heat-checking reduced to minimum! It's the amazing new World Bestos RED BLOCK... proved by months of testing on toughest truck and bus runs in America. "BIG RED", drivers call it, brings in reports: "Perfect brakes . . . no fade, no heat-check, no glaze!" "45,000 miles and still going strong." "89,000 miles . . . far surpasses any other block used." "Answer to a truck owner's prayer!" "RED BLOCK creating a sensation here!"

Here's How It Works . . .

RED BLOCK, revolutionary new high-friction compound developed by World Bestos, can be used only in right combination with special-friction, World Bestos D Blocks. Resulting "J" Combination is guaranteed never to fade ... guaranteed to reduce heat-checking and to give positive brake action . . . long wearing brakes under severest conditions.

"J" Combination Sets Now Available

Complete "J" Combination Sets, with installation instructions, now available to heavy duty truck, trailer and bus operators. Greater safety . . . big savings on maintenance costs apparent in every test case where service is abusive. Specify WORLD BESTOS "J" COMBINATION for original equipment or replacement. If local jobber cannot supply you, write direct to World Bestos, New Castle, Indiana.



DISTRIBUTORS . . . JOBBERS:

Get your share of this profitable heavy-duty market . . . with WORLD BESTOS! Write NOW!

WORLD BESTOS NEW CASTLE, INDIANA

SPRING TUNE-UP DRIVE!



Special Deal

SPECIAL

REGULAR \$21.60 VALUE

YOU BUY

24 Pints (1 case) at Regular Price	\$10.80
You Get 24 Pints for only	.24
Total Cost to You	\$11.04

SPECIAL RETAIL PRICE 76¢

REGULAR \$1.50 RETAIL VALUE

Sell 1-Pint at Regular	Price		 	*	*	* 1	\$0.75
Offer Customer Extra	Pint for		 			*	01
Combination Costs Or	nly		 	*			\$0.76

DEALS MUST BE BOUGHT IN FULL CASE QUANTITIES



ADDS POWER AND PEP

GIVES MOTOR LONGER LIFE

The ORIGINAL

TUNE-UP FORMULA

BACKED BY

DAGE THE SATURDAY EVENU

ADVERTISING

To Create Demand FOR YOU!

Order Now for Quick Turnover,

Big Sales and

RIGGER PROFITS



Hollingshead

See Your WHIZ Jobber

R. M. MULLINGSHEAD CORPORATION - Comdon 2, New Jersey Consider Officer Tetroire - Warshauser Dellez, San Francisco, Chicago

A Type for Every Purpose



INDUSTRIAL HEAVY FIBRE

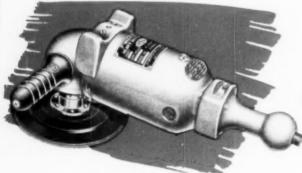
Industrial style abrasives suitable for heavy duty work, reducing welds, etc., and where heat generated is not a problem.

REGULAR STANDARD FIBRE

Built on lighter fibre than industrial abrasives and are intended for body work where light gauge metal is used.

OPEN COAT HEAVY FIBRE

For paint removal and cooler grinding on fenders, door panels, wood-working, etc. Non-Loading and Non-Clogging.



SIOUX HIGH SPEED SANDERS

Engineered and built for long trouble-free service. 3 Models: No. 1250 — 9" High Speed Heavy Duty; No. 1267—7" High Speed Heavy Duty and No. 1265—7" Special.

Sold only through Authorized SIOUX Distributors

STANDARD THE ALBERTSON & CO., INC.



WORLD OVER

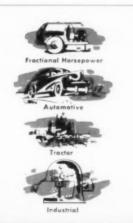
DURKEE-ATWOOD gives you ALL THREE for...

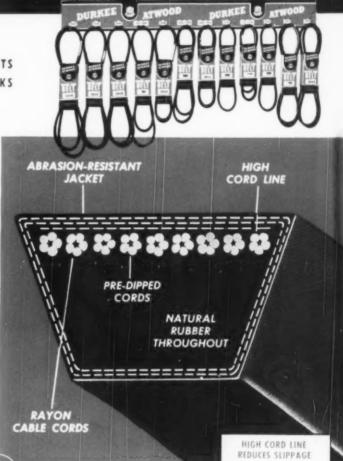
Fast-selling ASSORTMENTS PRACTICAL DISPLAY RACKS

You profit most with high turnover of a moderate inventory. That's what Durkee-Atwood v-belt assortments do for you. With fewer belts you can service close to 100% of all demands. Durkee-Atwood colorful, enameled-steel wall racks take up no floor space, are easy to keep bright and clean. Sturdy steel floor and counter racks are available to fit your merchandising plans. Belt guides, size finder, and easy-to-use measuring sticks supplied with assortments.

A Line of Belts WITH 1949 ENGINEERING

Take a look at this cross section of a Durkee-Atwood belt. You can see the design and construction features that put this belt far out front in efficient power transmission. You can't see why Durkee-Atwood belts give service far beyond ordinary belt standards, but your customers will tell you that they do. Our own proving ground and road tests show that Durkee-Atwood belts consistently exceed ordinary belt wearing qualities.





A Complete Line ... V-BELTS FOR EVERY USE

Millions of v-belts are used annually for power transmission. Profit by these new markets with the Durkee-Atwood line. Durkee-Atwood makes v-belts for every purpose; automotive, tractor, truck, industrial and household. These belts are available in assortments to fit your most frequent demands. FOR GREATER V-BELT PROFITS you need all

three advantages of the Durkee-Atwood merchandising plan. Ask your jobber salesman or write direct for

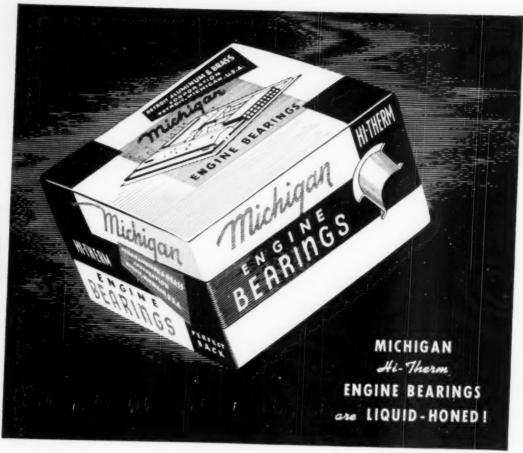
DURKEE-ATWO





Durkee Atwood belt-

OMPANY



LIQUID HONING, one of the exclusive features of Michigan Hi-Therm Bearings, assures perfect fit of the back or foundation contact. This prevents distortion or flexing . . . provides uniform running elearance . . , and enables the bearings to disperse heat over the entire bearing foundation.

MICHIGAN HI-THERM ENGINE

BEARINGS are easier to install . . . easier to adjust . . . eliminate local "hot spots" that eventually burn out ordinary bearings . . . and mean more profit on any bearing job!

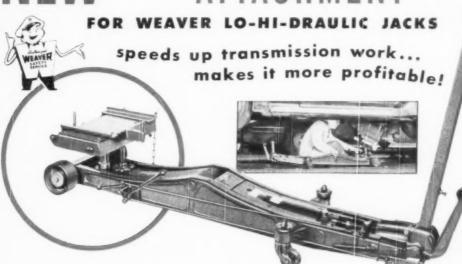
Write today for further information to



Manufae

SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950

NEW WEAVER TRANSMISSION ATTACHMENT



A Weaver Transmission Attachment on a Weaver Lo-Hi-Draulic Jack is the new efficient way to remove and replace transmissions. It's the speediest, safest method when working right off garage floor. The attachment's special saddle has adjustable rails and pins, and chain to hold transmission securely at all times. Hand wheel adjustments permit table to be tilted or moved in any direction. High lift of Lo-Hi-Draulic Jacks raises transmission high enough to make unloading to bench a simple operation.

Control levers for raising and lowering jack are conveniently located on side of jack frame. Regular jack handle on Lo-Hi-Draulic Jacks may be removed when using jack for transmission service. Attachments for either WA-72 or WA-73 Lo-Hi-Draulic Jacks. Available as complete unit attached to jack or as a separate unit to equip

standard Lo-Hi-Draulic already in service for transmission work. Regular Jack Saddle also furnished when Jack and Transmission Attachment are ordered.

See your Weaver jobber or write for Bulletin SA-636 containing full details.

Medel WA-72-TA Medel WA-73-TA Medel WA-76 Medel WA-77
Weaver 2 Ton
Juck with Jock with Attachment Attachment
Transmission only for Weav.
Attachment Attachment wir WA-77-Jucks er WA-73-Jucks

Weaver Manufacturing Co., Springfield, III., U.S.A.



For transmission service with WEAVER TWIN POST LIFTS...

WEAVER model EC-130

Hydraulic UNIT LIFT



OLDSMOBILE ROCKETS

TO RECORD-BREAKING PEAKS
OF PUBLIC ACCEPTANCE!

Never before in Oldsmobile experience have New Models inspired such enthusiastic reception!

From that first gala day when they went on display, the new 1950 Futuramics have proved a national sensation, Crowds , enthusiasm . . . showroom traffic . . . have shattered all Oldsmobile records. But the biggest raves of all have been saved for the cars themselves! "Rocket" Engine cars with the most-talked-about power plant ever built! If hirlaway Hydra-Matic cars with a brand new achievement in transmissions another Oldsmobile first! And Futuramic cars, of course! Cars with a thrilling new Fisher Rody for the ultimate in interior comfort and glamor! "98!" "88!" "76!" They all took America by storm! And each of these new Futuramics offers incredible value. For example: The brilliant new "BB" Oldsmobile now comes at a new, even lower cost! That's one more solid reason for the remarkable public response to Oldsmobile's magnificent new models. And that's one more reason why Oldsmobile dealers everywhere are ready and eager to "Rocket thead with Oldsmobile in 1950!"

Typical Dealer Reaction to the New "Rocket" Cars!

"Finest showing in Oldsmobile his tory!" HARRISBURG, PENN.

"4000 people crowded through showrooms in past 43 hours." OAKLAND, CALIF.

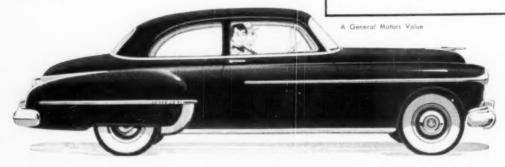
"Best looking car on the market— Head and shoulders above competition!"—CHICAGO, ILLINOIS

"Showroom jammed with more than 3,000 excited Denverites!" DENVER, COLO.

"All 1950 models superb. Demand for new cars terrific already!" PORT-LAND, OREGON

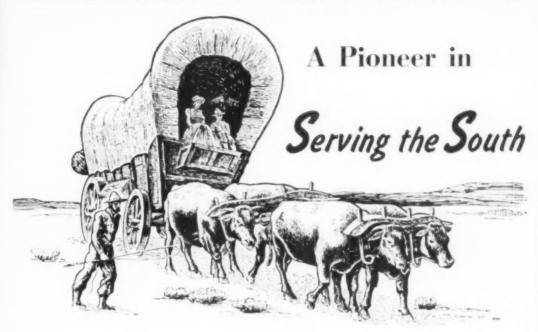
"Greatest reception in 18 years—The new Futuramic fleet is a sensation— Congratulations!" —PATERSON, N. J. "What a car—what a year 1950 will be for Oldsmobile dealers and salesmen Crowds tremendous Police called to regulate traffic!" CANTON,

"1300 people in two-day showing marvelous reception of outstanding car of 1950;" SAN FRANCISCO, CAUF.



ROCKET AHEAD WITH OLDSMOBILE!

Federated Mutual...



with

COMPLETE Fire and Casualty COVERAGE for HOME – BUSINESS and CAR

- Federated Mutual has pioneered multiple line coverage for the Southern automotive trade. Now you may enjoy the convenience of complete worry-free protection for your business, home, and car, all in one MUTUAL company. You will enjoy too, substantial savings in the form of dividends.
- Federated Mutual has pioneered in serving today's special insurance needs of the automotive trade. Your Federated representative is a specialist in providing men in your business with the PROPER coverage on FIRE and CASUALTY insurance. He is highly trained in your needs and represents no other company.
- There are Federated Mutual representatives throughout the South ready to give you their skilled, friendly service. Write us for the name of the Federated Representative nearest you!



MUTUAL IMPLEMENT AND HARDWARE INSURANCE COMPANY
1600 Healey Bidg.
ATLANTA, GEORGIA





From rich man to poor man—and those in-between.

You get MORE REPEAT BUSINESS and MORE CUSTOMER GOOD WILL
with AMCO. All AMCO Products are Safety Rated 3 ways. First, through
25 years EXPERIENCE as one of America's important suppliers of original
equipment brake lining for cars, trucks and industrial use. Second, by billions
of brake miles under every service condition, which are behind the ENGINEERING

of every piece of AMCO Lining. Third, through the latest MANUFACTURING methods in one of the country's most modern brake lining plants.

FREE 4-color "Miss Bumps" PIN-UP to brighten up your shop...
and a lot of PLUS-PROFITS to fatten up your cash register! Both are yours with AMCO!
A penny postcard with your name and address will bring "Miss Bumps" to you PRONTO!

ASBESTOS MANUFACTURING COMPANY, DEPT. B-9. HUNTINGTON, INDIANA.

CAN I AFFORD TO GET SAFETY RATED?

Why, lady, EVERYONE can afford a topnotch Safety Rated brake job! Re-sale prices on Wire-Back Brake Lining make it possible! Every Wire-Back Set is not only priced right, but also made right and packaged right!



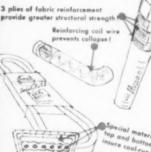


Somebody, quick, tell "Miss Bumps" that with amon Hose she won't have to worry about destructive action of rust, anti.

Amon Safety Rated Fan Belts are presented for proper fit!



BRAKE LINING



Special materials used for top and bottom cushions insure cool-running belt.

Flat side walls prevent belt from slipping in the pulley!

Special cover fabric

for PLUS-PROFIT PERFORMANCE depend on

Safety Rated Brake Lining

FAN BELTS . HOSE . BONDING OVENS . CAR MATS . CLUTCH FACINGS



When you *must* replace the points in a Delco-Remy distributor, use *only* Delco-Remy contact points. They are designed by Delco-Remy engineers as integral parts of the Delco-Remy ignition system and are made from the best materials obtainable. Buy Delco-Remy contact points in packaged sets; there's a right type for each Delco-Remy distributor.

WARNING:

To be sure of getting Delco-Remy contact points, buy them from recognized distributors.



DIVISION, GENERAL MOTORS CORPORATION ANDERSON, INDIANA DELCO-REMY
DISTRIBUTOR
CONTACT
POINTS
IN
DELCO-REMY
DISTRIBUTORS



DELCO-REMY—A UNITED MOTORS LINE
Available Everywhere Through
UNITED MOTORS DISTRIBUTORS

WHEREVER WHEELS TURN OR PROPELLERS SPIN

How to make more money for Yourself and do a better job for your Customers!



The New McQUAY-NORRIS
PERMASIZER

A NEW REVOLUTIONARY METHOD OF RESIZING PISTONS

Only your McQuay-Norris jobber has the Permasizer. He can give you quick, efficient service and help. Ask him for details. It's to your advantage.



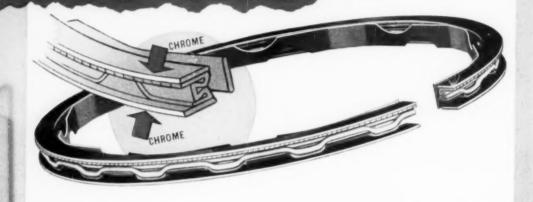
- More permanent and accurate resizing
- Does not artificially build up stress in piston skirt
- All pistons in a set uniformly expanded
- Resizes aluminum, iron and steel pistons
- A heat expansion and reshaping process
- Restores original shape and cam
- Uniform expansion with pressure exerted independently against top and bottom of skirt
- Does not deface surface of piston nor swedge metal

IT'S QUICK — IT'S ECONOMICAL
... IT'S A MONEY-MAKER!



McQUAY-NORRIS MANUFACTURING COMPANY

HASTINGS USES CHROME WHERE IT DOES THE MOST GOOD ... ON THE OIL CONTROL RING!



THE CHROME-FACED STEEL-VENT FOR HEAVY DUTY USE

No set of piston rings is ever better than its oil ring. Compression rings just can't function after the oil ring is worn out.

So Hastings gives you chrome-plating where it is most needed-on the oil control rings!

The Chrome-Faced Steel-Vent and its companion ring, the Chromlube, are doubling and tripling expected life of piston ring sets under some of the most difficult operating conditions in the heavy duty field. Two years actual field experience prove this.

For longer life, greater resistance to scuffing and less cylinder wall drag, install a Hastings Chrome Set. Available for nearly all trucks and tractors and for 16 passenger cars.

HASTINGS MANUFACTURING COMPANY . HASTINGS, MICHIGAN Hastings Ltd., Toronto



HASTINGS STEEL-VENT

COUTHERN

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VISION AHEA

INSIDE WINDOW WIPER

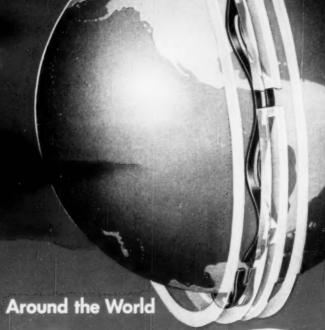
Here is the greatest sales item that the automotive industry has ever seen! This handy inside window wiper will clear the way for better driving for thousands of motorist, particularly during the cold winter months ahead. It cleans off steamy windshields in a jiffy. Easily attached to any glass surface.

- For all cars, busses or trucks . . . It may be used easily on front or sides.
- Rubber suction cup fastens CLERWYPS securely to your windshield. Merely press to glass and CLERWYP is ready for duty.
- Extra-strong, non-warping Styrene plastic made in several attractive colors to blend with the interior of your car.
- · Long-wearing felt blade chemically treated to absorb moisture.

Call. Write or Wire Today about CLERWYP"

SPECIALTY SALES COMPANY ATLANTA, GEORGIA SZ ALABAMA STREET







of Tower

MD-50 STEEL OIL RING

The only ring with the Full-Flow Spring

DOES THE WORLD'S BEST JOB OF OIL CONTROL EVEN IN

BADLY TAPERED

AND OUT-OF-ROUND BORES!

DOUBLE THE DRAINAGE WITH HALF THE DRAG!

SEALED POWER CORPORATION . MUSKEGON, MICHIGAN



SPOTLIGHTING the NEWS

Are you really selling service? A lot of garage men probably think they're selling service when they keep checking up on their past performance records and find that the volume is holding up pretty well for the previous comparative periods. But if you think the shop is being promoted fully, consider what one quite prominent southern jobber said last month.

His answer was a grimace and an apology. Garagemen are trying to sell as best as they know how, in many cases, but they're not taking advantage of a lot of help which the jobber is trying to tender to his trade. "Twe been waiting seven months already while trying to get a list of customers of one of my accounts to whom I have offered to send some direct-mail pieces especially designed for this trade. We had offered

to do this on our own for him to help build his volume, but he has kept putting off getting the list when we mentioned it."

Car sales ing to be foremost in a lot of minds from here on out, if you're to believe what the experts say. Said GMC Board Chairman Alfred P. Sloan, Ir., last month "If I were to chance an opinion. I would say that the automotive industry is likely to emoy in 1950 a volume approaching that Any change in trend is likely to manifest itself in the second half." Ford announced a produce-as-hard-as-we-can schedule also. A record

schedule of more than 600,000 Ford passenger cars "calls for the maximum use of all of our facilities, including considerable overtime at all plants," said President Henry Ford, II. And Chrysler Corp., as well as the independents, was generally geared up by this month for full speed ahead output.

Texas is a good example of what the record '49 production meant to the South. During last year 2,700,324 motor vehicles were registered in that state, compared with 2,289,183 for 1948—an increase of 411,141. Since the war, dealers in the Lone Star State have been investing an average of nearly \$30,000,000 a year in facilities, it has been estimated. Even for Texas—whose area would "cover" Georgia more than four times or "swallow" South Carolina nearly nine times—that's a lot of cars and a lot of money.

considered more and more a State sales taxes. source of revenue since Uncle Sam pretty well bottled up the personal income tax business, can be a headache. Latest example is in North Carolina where the tevenue commissioner announced a move which will increase sales tax collections from automobile sales by approximately 50 per cent. A new regulation has the vehicle taxed as it is produced and listed at the factory as one article. Additional equipment, such as radios, heaters and seat covers, are to be taxed extra at three per cent. The difference comes in the fact that a maximum sales tax of \$15 on a single article is permitted. Classed as several articles" rather than as one, the car will easily produce more revenue-and headaches-for the state and the dealers, respectively. Alabama has been having its share of state tax troubles, too, and a move was launched for a state sales levy in Georgia but it failed



"How's that seat for sheer luxury? Like riding on air, isn't it?"

How mad? The publy mad at the automotive business-madder than I before." That's what one southern dealer said last month as he reviewed the current picture. showroom, said he knew that a lot of dealers had were hard to get and then announced that he was ready to give us his '49 car and \$250 for a '50 model. Then he told us You're going to take this offer and be glad to get The deal wasn't closed on those terms, the man left in a big huff and behind him were some of

the sizzling "compliments" for the automotive fraternity in general.

An answer may have been found by you—an answer dug up by experimentation. If so, let us hear about it as everyone stands to benefit by counteracting this situation.

Pass it on! After receiving suggestions from readers from scattered sections of the South—as far, in fact, as from Oklahoma to Virginia—the editors have decided to insert on the cover of this magizine (beginning this month) a check hox designed to facilitate the passing around of each monthly issue to the interested persons in your company. Read it (we hope) and then pass it on, but do piease be sure to show it right along to the next man in your organization!

Add to customers' satisfaction with

CYCLEBOND BRAKE LINING





INSPECTED



SUPPLIED by Chrysler Corporation



No Rivet Holes! Up to 75% Longer Wear!

Bonded directly to brake shoe! Your customers enjoy safe, sure braking virtually down to the brake shoe.

More effective braking! Surface intact from one end to the other. More lining area in contact with drum,

Less drum scoring! No rivet holes to become clogged with drum-scoring grit and dirt,

Two Types Available



Pre-cemented MoPar Cyclebond Lining Sets. For all cars and trucks built by Chrysler Corporation, Ready for bonding to brake shoes.



MoPar Brake Shoe and Cyclebond Lining Assemblies. Ready to install. Factorybonded. No special installation equipment needed.

You can get

Mapar parts PLYMOUTH · DODGE · DE SOTO · CHRYSLER from dealers CARS · DODGE "406 TO

...and from most independent garages





Try Reconditioning for Added Profits

In timest days it's hard for a garage or dealership to devise an attention-getting service promotion without spending a lot of money. It's also hard to advertise a number of the budget. Many advertising and promotional schemes are competing for motorists' attention and repair jobs.

A Florida firm bit upon an idea which not only catches the customer's eye but also sells him a number of services. And the plan is not expensive, especially over a period of time. The details follow.

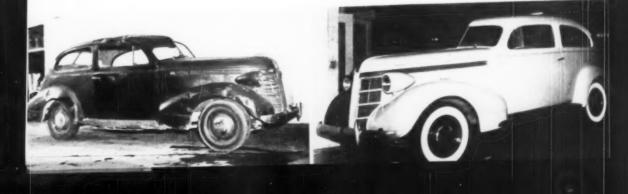
One morning at a staff conference, Eugene R. Elkes, president of the Elkes Pontiac Co., Lampa, startled his workers with a request for the oldest Pontiac still mining that they could find in the city.

They found it—a 1937 two-door sedan with more than 100,000 miles



By Bill Abbott

The pictures on this page show why the half-and-half "Miracar" has been stopping traffic and selling Elkes reconditioning service to quite a few Floridians.







on its odometer. It was then ready for the junkpile, but was still running. It needed bumper to bumper repair. Its engine was rusty, ignition bad, windshield fogged and broken, fenders and body dented, running boards broken, upholstery shot, window-glass channels out of commission, trunk interior rusting away, bumpers pitted and rusted and a home-made paint job that was disgraceful. There was hardby anything that could happen to an automobile that hadu't happened to this one. But it was just what Elkes wanted.

He gathered his staff again around the tired old jalopy and outlined his idea for a long-range sales and service program that since has paid dividends and is adaptable to profitable use by any automobile dealer with imagination who wants to build his shop volume.

"We are going to use this car," Elkes explained, "to visualize and dramatize a brand-new and better service to our customers.

"As you all know, the automobile business picture has changed. Short ages are over. From now on we must look for our customers instead of having them look for us. We have forecast and recognized this trend for many months. We have added more skill to our organization. We have added new equipment to enable our staff of factory-trained mechanics to do better work. We have increased our facilities to better serve our customers.

"In our plans, we have sought a name for a type of superior service which we have the men, materials and facilities to offer. We have adopted 'Elkes-onized Certified Service' as best expressive of our product.

"Elkes onized Certified Service' sums up a program that assures a customer his money's worth in good workmanship and materials, courtesy and appreciation of his patronage and a definite guarantee of satisfaction."

(Continued on page 134)



Photos (top to bottom):

Sales at this building went over \$1,000,000 last year, with a lot of credit for that total going to the reconditioning promotion.

This oven for baking enamel is one of 15 departments advertised by renewing half an automobile.

This is just one section of the five, modern service department.

Just as the "Miracar" sells reconditioning to customers, this picture of President Eugene R. Elkes should sell the promotion idea to other dealers and garagemen.





All new-car customers are taken on a complete "demonstration" tour of this modern service department before signing purchase papers for the car.

General Manager Bill H. Hughes (left) and Newt Hailey give the shop demonstration program much credit for doubled service volume.

We Get Customers by

Selling Them on Our Service

By BILL HUGHES
General Manager, Hailey Motor Co.,
Rogers, Arkansas

prophecies 14 years ago.
"You can't make it, Hailey." The new boss, who had been a high-production salesman since Model T days, had to listen to a lot of that sort of conversation.

Taking over a dealership that went broke four times under

other owners called forth some dire

Newt Hailey has "made at." He did it all with plain, hard-driving selling and by "demonstrating" his service department in the same way he demonstrates a new car to a prospective hiver.

Under Newt Hailey's direction, the Hailey Motor Co., founded in 1935, has grown into one of the city's largest organizations, with an annual payroll of nearly \$75,000 and a permanent staff of 26 employees—all housed in what customers say is one of the handsomest and most modern automobile sales and service plants in the state.

Newt Hadey is enough of a showman to make people talk about his new building, a building unusual in a town of 6,000. But before he is a settle solully in the big back area labeled "Service."

Service and sales simply cannot be separated in the Hailey organization. When a car is sold, whether new or used, the customer is made so completely conscious of init service depart.

showman, he is a salesman. Well laid sales plans extend from the display floor to the used-car department and





Seeing the careful way in which older models are reconditioned and spruced up increases a customer's confidence in the service force.

Free lubrication books for newear buyers help them form the habit of going to Hailey for service and keep the lube rack busy.



ment that it would be rather remarkable if he did not do his bit toward adding to our constantly growing service volume.

We allow no one to buy a new car without getting a complete demonstration prior to signing an order. The predetermined route, approximately 12 miles long, includes all kinds of driving.

Back at the plant after the demon stration, the salesman lifts the bood and points out and explains the power plant, cooling and heating equipment and other details.

"Now come to the service department," he tells the customer. "We want you to meet the boxs back there."

The service shop is given a demonstration as complete as the car itselfhas just received. All the equipment is pointed out and explained. The service manager, Jake Frederick, points out his trained mechanics, cleanliness and the new car pre-delivery servicing alone to every new car before delivery.

After that complete demonstration that puts the plant as well as the car on parade in detail, 85 per cent of all our customers sun the order.

But we're not through with the customer yet. He has signed on the dotted line. Now he is again taken to Service Manager Frederick, who handshim a free lubrication and inspection compon book.

"This book is our warranty of completely satisfactory operation of your car," he says. "If anything about the car puzzles or disappoints you, report it to me immediately."

This elaborate demonstration was designed to leave the customer impressed with one fact. We are as much interested in him and the car he purchased as we were when he was only a propert.

Maybe that last clincher to our sale is the reason for our healthy growth. We hold on to the customer.

We don't call the service department a necessary pain. It is a profit able operation with us that adds plenty of dollar volume. All our employees sell service. That includes the new and used-car sales force, the parts department, service department, the owner, the management and the of fice personnel. The entire staff is sales minded.

Uses Daily Control

Our service manager and parts manager have daily operating controls showing each his daily accumulated attainment against his quota for the month. This, of course, is broken down according to departments.

Proof that pushing and promoting service pays is the fact that sin c we moved into the new building nearly two years ago and started our current intensive sales program in service, our service volume has doubled. The shop is always full.

Our rule is that the service manager and all service people must be voing and aggressive, highly trained and constantly trained. They must have above average personalities and the ability to get along with other employees. They must like to make

friends and meet the public.

Newt Hailey works harder than anyone else in the organization. He's right in there selling all the time selling new cars and trucks, used cars and trucks, tires, parts, service or just selling good-will.

In a small town it is important that the key people in the management of a dealership belong to service clubs and civic organizations. Mr. Hailey is past president of the Chamber of Commerce and is an active member of service, civic and social clubs.

When he constructed our new building two years ago, he made it a credit to the town. The building is really a part of our current sales plan, set up to assure continued growth and prosperity for our firm. Many people of Rogers feel that we symbolize the town's growth. And that is exactly the impression we want to have on our 6,000 inhabitants.

Some people say that in a town of our size a dealer doesn't have to advertise because everybody knows him. We believe that we should remind everyone that he knows us or should get acquainted. For us, advertising has paid off.

Our advertising is broken down into three categories—new unit sales, parts and service sales and good-will. Our four advertising media are newspaper, radio, road signs and dire t mail. We strive to make our newspaper advertising entertaining. It must also sell something definite in our of the three categories.

The sustained-market radio pro-(Continued on page 130)



Paying Mechanics a Higher Rate

It has paid off, says an Alabamian who also keeps fishing poles ready when a mechanic wants to use them,



Top photo: The mechanie's yearning to wet a line can be satisfied just as soon as fishing weather arrives. Owner W. N. Elev will gladly give him time off.

Above: Pay day is always a happy time, especially since those checks being handed out by Eley (center) are for two thirds of the company's total labor charge.

M Co., Union Springs, Ala., receive two thirds of every labor dollar they carn—33 1/3 per cent more than the 50 per cent of labor paid in many shows.

They get a week's vacation with pay, based on their average weekly pay cheek, and when the fish are biting, any employee may take the after moon off for a bit of angling. In fact, Owner W. N. Eley is apt to make the suggestion.

This program may sound like a story-book set-up for mechanics, but the plan has a happy ending for the owner too.

Eley, who has been a dealer for 55 years, said his extra liberal profit sharing plan and employee relations program have won him a much better and more economically operated shop. The extra dollars the men are paid are more than recovered through in

consol column and officions

Labor turnover has been cut to the bone. One employee has been on the payroll for 26 years, another for 11 years. The average length of service for all hands is five years.

Mechanics Keep down Costs

My men aren't just happier and better worknen," Flex explained, "but they are interested in vaving me money as well as making it for me. I am able to keep operating costs extremely low because each incolume as conscientious about taking proper sure of tools and in not losing supplies. They know that I must keep my overhead down if I am to continue paying them such a high share of profits.

Every one of my employees considers himself a partner in the business—and I consider him in the same manner. They go out of their way to make sure a customer is satisfied or to save the company a couple of dollars. They are constantly thinking up better ways of doing jobs in the shop. I make no rules. The menmake then own and I have no trouble at all.

Until about a year ago mechanics received 60 per cent of labor. Then Elev increased their share to two-thirds. Although it is a small firm in a small town, the four mechanics now a ratage \$75 a week.

"With the crist of living riving steadth at that time. I felt it the only fair thing to do." Elsy said. "I did not merease the mechanics carnings merely in an effort to hold them. I think most of them would have stayed answer. However, these men are entitled to a decent standard of living and I wanted to asset them as much as possible in maintaining it."

The extra labor percentage above (Cantinued on page 132)

Baby-Sitters Sell His Used Cars

Many parents who temporarily trade a baby for a set of car keys take home a four-wheeled bundle of joy.



Junior might be happier over Mrs. Carr (left) if he knew she would help him get a "buggy."

To most persons there is little or no connection between babe sitting and used car sales, but to magnistive young John D. Carr, manager of Hargrove Motors, St. Peter burg, Fla., the two have been linked into a profitable promotion venture.

"Exclusive with Hargrove Motors," said one of his newspaper classified advertisements, "Trained balw sitters while you drive our Red Star warranty

The ad offered experienced balw sitters while father and mother, or either of them, were driven to the Hargrove lot to look over cars, or while a Hargiove car was being demonstrated

It could have been just a gag and resulted only in a buby-sitting joke, but it paid off for Hargrove, and Carr discontinued it only after it had outgrown its metallics.

He recommends if to dealers in both new and used cars wherever it hasn't been tried

Besides being a good advertising novelty, he said, it is practical and effective

Carr, a young Army veteran who was bucking stiff competition in a city where business is seasonal, hit

upon the idea through a double har reled set of encounstances.

"I was new in St. Petersburg," he explained, "and I was trying to be come known. I lay awake at mights trying to think up something to get people to come on the lot and see our

"And I was trying to get away from screwball advertising—such as a picture of a guy with a rope around his neck, saying 'FII be hanged if I can't give you the best deal.' That's the type of stuff I was trying to avoid.

Then, at about that same time, we (Continued on page 131)

Manager John D. Carr helps a customer into a used car in which she is interested. Mrs. Carr has the children in hand so the customer can concentrate on the carAt the end of a successful demonstration, free from annoyance and distraction for both salesman and customer, the papers completing the sale are signed.





A similar set-up for renting passenger cars to doctors and salesmen is planned in April.

— By — Beatrice Miller



Phillips'

Truck Rental Plan Yields Profits

A what it means in dollars and cents to rent a truck was presented to local truck owners when the Rent A Truck plan was launched by the Joseph Phillips Motor Co. of Alexan drug Virginia.

"People have to be educated to the idea that it is cheaper to rent a truck than to own one," said Joseph Phillips, whose success with tauck rentale has encouraged him to embark on a cur-rental plan to be imaginated this suring.

Accordingly, the salesmen who crused the streets of Alexandria in the Phillips Rent-A Truck vehicles approached local truck owners with this in mind.

First, they pointed out, renting a truck eliminates capital investment. It climinates insurance expenses. There is no cost for maintenance into any personal property loss. The deal or pays for everything but gasoline and oil while the truck is being uperated on a rental basis. Nor is there a mileage charge until after 25,000 miles.

The program opened with an educational campaign in comparable operational expense between truck ownership and truck rental

When applicants for truck rentals began coming in, procedure was the same as in the case of any person applying for credit. Applicants were checked with the Credit Bureau to determine risk. Upon a satisfactory report, a contract was drawn up between the Joseph Phillips Motor Coand the lessee.

The contract covered a period of 30 months at \$75 a month for a \$2500 panel or pick up. The rates near according to special equipment or kind of vehicle. Mileage at excess of 25,000 was to be at four cents a mile, plus the regular rental charge. Rented trucks are protected by fin, theft and \$100 deductible collision programs.

Phillips arrived at the tental rate of \$75 monthly by using the retail usling pure of the unit plus one third, which represented the mark up or operational expense, then dividing that by 50 months and rounding out the figures.

If at the end of as months the tracking from wants to purchase the track it can be bought at list purce

The Joseph Phillips Motor Co.'s Rent-A-Truck advertiser is well known to Alexandrians as it cruises along the streets of this city.

plus the immsed measurer cost, with an allowance of 75 per cent of rental

The plan caught an. More and more truck users were applying for restals. A newspaper story in the local paper on what the Phillips Motor Cre was doing strived up more business. An attractive hlotter describing the plan went out to prosper truck renters.

Dump trucks are excluded from the program because the damage to the truck in six of seven months will use up the value of the truck. In vestment in a dump truck would have to be made up in aix or seven months. To take care of thus, rental rates

During the 50 month period of operation the truck is inspected monthby and serviced in the Phillips Co-Servicing is handled as rapidly as possible so that there is little loss of time to the trucker. Emergency repairs that may have to be done else where on the road are not paid for by Phillips unless annowed trist.

Phillips unless approved first Rent A Truck is a profitable plan that works out satisfactorily for truck

Here are the figures for trucks rent ed by Phillips

At \$75 a month for a 52-ton panel truck for 50 months, the income will be \$2,230.

It costs the dealer the first year for truck and expenses

ta ton panel \$1,250 Insurance 130 Lettering on truck 25 License plates 20



Truck-Renter Phillips, a Dodge-Plymouth dealer, stands by a new lettering job on a rented truck.

First year	naintenance	120
		\$1,545

Income on the truck the first 12 months at \$75 monthly is \$900.

It costs the dealer \$1,545, so he has \$645 to make up the second year.

During the second year the income will be \$900. The dealer's expense will be

Insurance Maintenance Lacrise plates	8	130 240 20		
Carry over from first year	5	300) (145		

Deducting 8000 income from this the carry over at the end of the second year will be \$155.

In the six months remaining of the 50 month contract, the meome will be \$450, less the carry over of \$135. The net profit will be \$515 plus the value of the used unit.

A second corporation should be formed for the rental operations so that all expenses and tax heurists can be shown and advantages taken there of For it the truck's rental profit is low and idealer profit high, units can be sold to the rental corporation at cost or vice versa. If the cental profit is high and dealer profit low, you can sell to rental corporation at lost

There is nothing new about the truck rental business, said Phillips who modesth disclaims any credit for his enterprise and mitiative. In large cities it's hig business renting trucks. A number of large corporations rent rather than own trucks."

He undertook renting trucks because he believed the liish period of selling trucks was over. Rentals became an outlet for trucks the factory expected him to take. For him the rental plan means no truck inventory. It has mercased his parts sale volume. At the same time he has built up his repair service. The plan takes care of idle time in the slup.

On the basis of results, Phillips plans expanding rental to passenger cars to local physicians, contractors, local salesmen and other professionals dependent on transportation.

Expanding in April

The same practical appeal will go out to them some time in April when it can be determined what car production will be. To a doctor or sales man the advantages of renting a car will be similar to those of the trucker—in capital investment or depreciation. He gets all repairs free. He doesn't have to pay for tags, personal property tax, sales tay or insurance.

Passenger car cental will operate on a diorter term contract only 12 to 15 months at \$80 to \$85 a month.

Car replacement at the end of the year will be on a model basis—a '51 model will replace a '50 model. No used cars will be rented as the man tenance would be prohibitive. Renting a 47 model would be a false cromony as manuferance would also

The advantages of ou rental to the dealer me readth apparent he knows what his unit costs, what insurance comes to, what his investment is and what operating a care the first 12

months will amount to. Phillips has not worked out his figures precisely yet, but he knows that the first year's cost will more than pay out in 15 months.

The dollar and cents contrast of owning a car and renting a car in Alexandria will have to be pointed out to the prospective car center as they were to the truck operator.

Car ownership the first year means at least \$1,000 depression and operating cost.

Capital investment (it he pays cash)	
Insurance (if he paid	
Maintenance	
Luceuse plates	
Personal property tax	

Car tental the tirst year comes to

The dealer can do it at much less and pass on the benefits to the car renter because he doesn't have to pas \$2,200 fm a car. He doesn't pay a personal property tay and pays a much lower rate in fleet mananes.

The car cental contract will allow 15,000 unles with a charge of four cents a mile in excess of that. With the United States average at 12,000 yearly, the renter will have a wide

Phillips will not encourage out-oftown salesmen in his plan because of excessive mileage and the car's in

Right now he can forese that the first year's cost will more than parout in 15 months.



Save Time, Make Money with Steam Cleaning

T in hundred gadget around our nepair shop, says W. F. Langston, garage owner in Manni. Pla, "is a steam channel which cleans up any piece of mechanical work with less than half the time and trimble of old-fashrones hand methods."

"The chance is simply a flash boil or, water feel ity an electric pump and heated by plain kensene anget ed in a fiel pump. It pundaces 120 pounds of five steam in about 5.1/2

"With a line and insulated mostle flu mechanic or wash man car shreet the continuous steam pressure from the last angle to any part of the oil and really clean off the greace. shidge, paraffin and dut or inclined As the work is partly taken down, it also cleans the mode of motions transmissions, you couls, etc.

After the steam treatment the mechanic works with clean hands, clean trads and clean parts—and I den't mean alopeet clean. I mean decided hand so its natural his works with mean enthusiasm and surgness, at the at the dightest trace of got a time back into the mechanism.

The steam changes cost from about \$450 to \$700, but a busy-shop that purios washing and cleaning note can per to our out of profits

in a year or in a couple of years on a normal volume of routine business. Besides, there is the morale-building feeling that it's helping all the time to turn out better—and better look urg—polys.

We only use about a quart of kerosene and a couple of cents winth of stemusoff powder for a job, as against the two gallons of kerosene used to hands from a motor marken.

It used to cost us about 35 to clean up a motor overhant and be

It doesn't take a lot of training and it doesn't take a lot of time to clean up jobs with steam. That is why it's so profitable for the shop.

By Hal M. Newsome

cause it was a part of a big job and didn't really look clean, we sometimes load to throw it in for nothing. Now we can tack \$5.50 on to an overhaid and get it. The cleaning takes not 15 minutes of easy work without any limb, putty kinfe in mess. With the ran down we get the mode too.

"Say a prospect comes in for a valve job in some minin trouble and we see lie has a messy motor. We say. How about steam cleaning your motor inside and out for \$52°. On a small repair we can cleage mine to cleaning and half the time it's a sale.

"In 15 or 20 minutes we've made a nice profit that helps make up too the jobs where either competition has hammered the pract down or where something goes wrong on a quoted job that shares our profit to

On a transmission or rear end pile we save an hom and a half cleaning time, all not profit. On wheel aligning or front end or brake work if the same stors. Also on quoted proceed the mechanic van actually do the report politically in much loss time with clean parts, leaving us a new profit margin there.

"Expecially in a damp, sultain climate like ours, a profitable calcium can be worked up cleaning and protesting the classes. Steam is great for cleaning a classes, though to make

(Continued on page 130)







New Mechanics Sign His Direct Mail

By Stuart Covington

W new a new mechanic is bired at McGanty Motors, Inc (Ford Mercury), Troy, Ala., the first thing President John W. McGanty does is hand him a pen and stack of letters on which to place his signature.

These letters are "ghost written" for the mechanic by McGarity or a member of his staff in a friendly, conversational style and mailed to a selected group of car and frick owners listed by the mechanic as his closest friends and best customers. The letters have gone a long way toward bringing new customers into McGarity Motors' shop.

Recently McGarity employed a

Recently McGardy couplosed a man who had developed an enviable reputation as a time up specialist at another shop. As soon as the time up expert checked in at McGanty Motors, 200 mic page personal letters were mailed to ear owners with whom the time up man had emoved the triendless relations at the place when he formerly worked. McGardy sign ed some of these letters, but a mumber of them were written as if they had been penned by the tune up man himself and they bore his signature.

Some after they were dispiped at the post office, several car owners who had developed confidence in the tune up man's ability rolled into the shop for a check-up. McGarity is counting most of these as permanent custom-

Employing a good mechanic with a favorable reputation will not assue increased business even when newspaper advertising is run to announce the change," said McGarity. "Newspaper ads or radio spot announcements are frequently overlooked, or possibly the name of the mechanic in question fails to register. But when a car owner receives a personal letter, he is almost certain to read it, and if that letter is signed by a me-

channe he knows and trusts, the letter is apt to carry a great deal of nupact. Many persons look at a letter's signature before scading its text."

Many motorists are "one mexhanic" men. McGarity pointed out, and like the old lady who swears by a particular doctor or deritist, they don't want just any repairman delying into the motor of their new car. When their favorite mechanic leaves a shop where they have been trading, they are quite likely to follow him to his new job. All they need is a little push to jog them into making the change. A friendly personal note from the incohanic often provides the necessary

Even if the new mechanic concentrates on only one type of job, as was the case recently at McGaraty's, his followers are almost certain to okay any further work which the shop force finds is needed on their cars.

Mechanics like McGarity's plan too. It gives them a feeling of pride and the belief that the have a personal stake in the business. The result is a better, more dependable workman who will devote more time and energy to selling extra jobs. All McGarity mechanics receive 50 per tent of gross labor.

The personalized letters are a step in the direction of lower labor turn over ton. With McGarity's pay plan, exery incehanic is naturally obliged to keep busy if he hopes to draw a fat pay cheek. A may man, especially if he is a specialist, may run into a temporary shump in shop volume soon after he arrives. A couple of skimpy pay envelopes may discourage him and he will deade to move on again to greener pastures. But with McGarity's system of aggressively selling new employees to the firm's customers and the mechanic's friends, many a dull week can be turned into a profitable six days by several motorists attracted through the personalized

McGarity's labor turnover is extremely low, but when he is forced to take on a new man in any department, he thoroughly investigates his background and working habits as well as his knowledge and ability and extends every effort possible to check into his home life and recreational habits.

These factors tell a lot about a man's value as an employee," he explained. And I fix too to get leads on them from my employees." These

Continued on page 131

President John W. McGarity and his service manager. Rip World, book over one of the letters which have added to shop volume.



SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950

Prece-senting!

THE SENSATIONAL Mr. Schmitz





Here's Clown Frank E. Schmitz with the shot-stopping car he made.



And here's Schmitz as a dealer.

Wirs the nationally known Gamesvalle Community Circus goes into its 21st season this year, the principal producing clown will be that sale splitting, sensational, unccessful. Dodge Plymouth. dealer, Frank E. Schmitz.

Schuntz is not merely one of the star performers. He built the manuture car which is the beas for one of his most popular acts. He is a good example of how a dealer can contribute to community life, operate a successful business and have a lot of funbesides.

The circus, which is said to be the only show of its kind in size produced and presented by amateur artists, was started in 1930 in the small Texas circ, which has a population of 15,000. It began as an activity of a Lattle Theater group and it's still presented by local citizens in their own and neighboring towns.

By George C. Morris

But the three ring arrays can now rival anything produced under the big top. It includes all types of acrobuts—tumblers, was walkers, trapeze performers, gyunnasts, dog and ponyacts, horse acts and, of course, clowing

Schmitz is a leading figure in the clown acts and has produced two sequences which never fail to leave the andrewe shaking with laughter.

The first of these is built around a

Frank Schmitz has made two big successes in a Texas city—as an automobile dealer and as an amateur circus clown. small councetype for automobile, measuring 51 inches long, 27 inches high and 17 inches wide. It is powered by a lawn mover motor. Schmitz tolds his five feet ax inches height and 165 points into the cu and out of solds.

When he drives into the arena, it books like the small can in driverless and just running loose. Another clown of the circum powes as a traffic cop and stops the car after it has made the rounds of the frack. No sooner does the rar stop than out comes Schmitz in his clown's outfit. After an argument with the traffic cop, Schmitz twists his body into the car in seven seconds, honks the horizond hands for the exit—always amid a roar of applains and highter.

In another act Schmitz uses a small two-door car of Italian make, approximately two thirds the size of a Model





This is Nash's two-passenger "\$1,000" car. The experimental model has simplified exterior styling and a choice of three low-horsepower foreign engines to give high gasoline mileage.

Do Americans Want This \$1,000 Car?



Does the American public want a the limitations that would be necessary at this pince?

A small two-passenger, two-door convertible shown last month by Nash Motors Division would be in that pince range if it goes into production next year. It can also be built as a sports roadster or a twostoor, all steel coupe.

Designed to use foreign-made, lowhorsepower engines, the car is 12 feet one inch long, four feet five inches high and five feet two inches wide with an 84 meh wheelbase.

Temporarily called the "n. x. i" Nash experimental infernational), the car shown is powered by a four cylinder, 18 horsepower Italian curaine. It would deliver 45 to 50 index a gallon of gasoline and bave a top speed of 60 to 65 index an linux, Nash engineers said. It weighs 1,350 industrials

Alternate engines include a Frat of 56 Inusepower which would deliver 35 to 40 index a gallon and attain a top speed of 65 to 70 index an hour. It would very 1450 pounds. Both en

A flind alternate entine is an English built. "Mandard" of 36 horsepower with a three-speed transmission.
Office Funipean powerplants could

also be adapted to this car, engineers said.

Exterior design has been simplified in many ways. Front grille, and humper are combined into a single unit. Excess chrome has been climinated. The drop-center, one piece windshield, which comes below the fender line, conforms to the curving lines of fender and engine hood.

Fugine hood, front fenders and lights are combined in one assemble which may be raised for engine or front-end service. The trunk lid has been eliminated, storage space being accessible from inside the car behind the two passenger seats.

The car has leg room equal to the average in full-sized American cars company engineers said. If built, it would feature the Nash Air fyte" construction, with body and frame as a single all welded unit.

"The track is not an attempt by Nash to invade the large-volume automobile market." George W. Mason, president and chairman of Nash Kelvinatin Corp., said. "The car, if built, would probably have a relative by specialized market potential."

In our judgement, the n.s.i. should meet basic transportation to quirements not now served and thus this car should represent plus pay senger on sales and would not be competitive with full-sized cars now made by Nash or other manufacturers."

This small experimental car should not be confused with a new fullsize "X" model to be introduced this spring.

"The n.s.i. is not in production, no tools have been ordered and the cars could not be manufactured for at least one year," Mason said. "It would be manufactured only if public opinion clearly shows need, de size and willingness to buy them in sufficient quantity."

Six showings have been held in different sections of the country and those attending were asked to express their opinions of the car. Nash aunounced plans to poll 250,000 people in a survey of the market for the model.

Would the u.x.t be a satisfactory second car to two-car families? Would it have enough appeal for commuters who park all day? Would women prefer a small car for easy handling, parking and economy? Are there enough potential buyers who would be satisfied with a car having a top speed of 65 to 70 miles an hour and less stop light" acceleration?

Those are some of the questions Nash hopes to answer before decid-



Cadillac Has New Carburetor

A carnet to rote heating system, improved oil-line pressure in the Hydra Matte transmission and improvements in the steering mechanism are some of the mechanical changes in the 1950 Cadillacs.

The carburetor has leaner calibration resulting from exhibite head modification. In the new design, exhaust heart is directed around the carburetor idling system. Introduction of this heat unmediately after starting a cold engine not only reduces the warm-up time but also minimizes the possibility of air borne moisture condensing and freezing in the carburetor idle jets during cold, humid weather, company engineers said. After the engine is warmed up, the heat

to the carburetor is reduced automatically by an exhaust manifold heat valve.

A smooth shift with the Hydra-Matic is provided through a system that regulates of line pressure. Pressure is automatically varied by the position of the accelerator pedal. The response to light thinttle at an easy start is low oil pressure for a smooth shift at low speed. Depressing the accelerator results in increasing oil pressure to cound the greater engine power during shifts at higher speeds.

The Hydra Matte is standard equipment on all Series 60 and 62 models and optional on Series 61 and

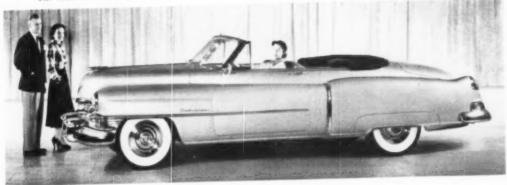
Steering wheel "kick" is abumbed

and manufaced by a new arrangement of drag link springs, a more flexible arecting-column shaft and by using a larger steel core in the steering wheel to increase the mertar. Front-wheel suspension improvements and redistribution of the car weight increase directional stability and give a firmer feel in handling, particularly at high-

Front wheel suspension now incorporates direct acting shock absorbers which are mounted made larger rull springs. New direct acting shock alsurbers are used in the rear suspension, where mounting at an angle provides better control of both mad shock and side motion.

(Continued on page 133)

The Series 61 sedan (above) and the "62" convertible show the new body lines and fender treatment.





NEWS BRIEFS of the

Atlanta's Television Show Puts Spotlight on '50 Model

A NUMBER of residents of Atlanta. Ga., got their first glimpse of the 1950 Plymouth on a television show sponsored by Wagstaff Motor Co., Inc., and judging by the prospects brought into the showroom, this way of introducing a new-car must have made a good impression.

President B. F. Wagstaff, his personnel and the staff of the television station teamed up to present a halfhour introduction of the car—its looks, mechanical features and cus-

tomer reaction.

While at first the cost of this halfhour broadcast seemed high, we have been quite pleased with the results," Wagstaff said. "In addition to the crowd that jammed our showroom while the broadcast was in progress, we reached other people who would not otherwise have come into our showroom.

"After the program was over, the phone started ringing and in a short time our showroom was packed with another crowd just as big as the one that was shown in the program. Apparently a lot of those people saw the car on television and then decided to come on down and see the real thing. We had to stay open an hour later than we had planned on the night of the show and for three nights we finally had to lock the door so we could go home."

Wagstaff used a five innute commercial to introduce the DeSoto a short time before the Plymouth was brought out. That was the first time a car had been taken into the studio of the local station. For the Plymouth, he decided to use his own showroom as a background and take a half-hour to explain it fully. This was the first time this technique of announcing a new model had been used in Atlanta, he said.

"We were a little worned about the way a half hour 'commercial' would go over, since most television commercials are only a minute long." Wagstaff said. We believe a large part of its success was because it was completely unrelicarsed. The audience could tell that and they seemed to like it.

"The television staff trained the cameras on various parts of the car while the announcer talked with our staff and visitors about that particular feature. Our service manager, for example, disensed the mechanical features while the cameras picked up an actual engine. We were pleased at the way the various parts of the car showed up. It gave us a chance to do a kind of selling which we can usually do only when people are actually in the showroom."

A television set was installed in one side of the showroom so the visitors could see how the show looked on a television screen while it was being produced. This was a popular tea-

time.

Some of the results of the program may have been because it was a novel experience for the people of Atlanta. Wagstaff said. Although he doesn't plan to repeat the program in the same form for other models, he says he plans to continue to use television in some form for advertising.

These photos were made during the half-hour television show used by Wag-staff Motor Co., Inc., Atlanta, to introduce the 1950 Plymouth. President B. E. Wagstaff (center) is shown discussing some features of the ear with the announcer of the program. Other

Wagstaff employees and visitors to the showroom also took part. Some of the throng which jammed the showroom is shown helow. A television set was installed so visitors could watch the broadcast as the show was produced. The show brought a big crowd.





AUTOMOTIVE INDUSTRY







City Chevrolet Co. at Charlotte, N. C., dressed up" its lot, as these before and after pictures illustrate, "This modernization program is line with the national program of Chevrolet Motor Division," said President P. L. Abernethy, "and our

new lot, which occupies the same location as the old one, is complete in every respect — concrete surface, closing office in rear and is lighted by 25,000 watts. We feel it is the most outstanding used-ear lot in the southeastern section of the country.

Salesmen Bettered Way Of Life, Greiner Says

"S at 18 MASSHIP was the pathfind or in pointing the way toward greater development of the private enterprise way of life," Karl M. Greiner, ager of Packard Motor Car Co., told the Corpus Christi, Texas, Sales Excentive Club last month.

Scientists, technicians and engineers developed America's great to sources, he said, but added "All their known or, at best, novel to the man in into the hands of people who could use them.

He also mged repeal or reduction of the federal automotive excise fax. that the emergencies for which the

Bonney Announces \$5,000 Contest for Mechanics

grain of Bonney Forge & Tool Works. trade and begins March 4 and ends May 31, a company announcement stated. Entry blanks are obtainable from Bonnes jobbers

There will be 1,507 prizes for me in the contest, with a separate set of

Engene Stowers, Chevrolet-Buick-GMC Truck dealer of Bluefield, W. Va., was one of the some ten southerners on the programs for dealer clinics at the National Automobile Dealers Association convention in Atlantic City early this mouth. Stowers was a member of the panel which dealt with employer-employee relations.



Ford Revises Southwestern Region Sales Set-Up

of Ford Division have been announ-

George P. Montagnet is now assistant sales manager of the region, with headquarters at Kansas City. He was tormerly district sales manager at New

David R. Crandall, Jr., assistant district sales manager at Dallas.

Earle S. Alexander, formerly at Houston, his been named Kansas City district sales manager. He has been succeeded at Houston by Eric

Claiborne H. Weigand has been promoted from assistant district sales

Missourians Meet May 23

The 1950 convention of the Missouri Automobile Dealers Association will be held May 23 at the Hotel President in Kansas City, Manager James A. Gordon has announced. Plans for the convention are well inder way, with Don E. Fitzgerald as

Looking Ahead

March 23.26—Eighth Southwest Automotive Show, The Coliseum, San Automo, Texas.

April 25 27 Third Highway Transportation Congress, sponsored by National Highway Users Conference, Mayflower Hotel, Washington, D. C.

May 1+17—Annual convention of North Carolina Automobile Dealers Association, Carolina Hotel, Pinehurst, N. C.

May 18-20—Annual convention of Automotive Engine Rebuilders Association, New Jefferson Hotel, St. Louis, Mo.

May 23—Annual convention of Missouri Automobile Dealers Association, Hotel President, Kansas City, Mo.

Sept. 9.11—Annual convention of South Carolina Automobile Dealers Association, Ocean Forest Hotel, Myrtle Beach, S. C.

Oct. 15-17—Annual convention of Tennessee Automotive Association, Memphys.

Oct. 1950—Annual convention of Florida Automobile Dealers Association, Biltmore Hotel, West Palm Beach, Fla.

Dec. 1-2 Business conferences of National Standard Parts Association, Chicago, Ill.

Dec. 4.8—Automotive Service Industries Show, Navy Pier, Chicago, Ill.
April 19-22, 1951—Southeast Automotive Show, Barmingham, Ala.

Ed Maher Receives Religious Honors

H ten selations honors have been given Ed Maher, president of Ed Maher, Inc., Ford dealership at Dallas, Texas. He has been appointed a Knight-Commander of the Order of St. Gregory the Great by Pope Pins XII.

Maher was honored for his many years of lay leadership in church at fairs. Before moxing to Dallas, he lived in Ranger, Texas, where he had helped to build a church, school, convent and rectory. Maher and his wife have endowed a foundation in the Dallas diocese for animally paying expenses for some student appraint for the priesthood. He was one of the leaders in building the new Church of Christ the King, dedicated at Dallas in 1947.

He will be invested with the honors of the order at Sacred Heart Cathedral at a later date

Maher is this year celebrating his



Mr. Maher

37th anniversary with Ford Motor Co. He joined Ford in 1913 as manager of the Dallas parts department, became a partner in the Ford dealership at Ranger in 1919 and returned to Dallas in 1930 to establish his present firm.

In March, 1940, he was honored by Ford for establishing a world record of disposing of 309 new units in one month, breaking previous records. On another occasion he set another record by delivering 55 Fords in a

Henry Ford is said to have credited Maher with orginating the idea of the Ford Merchandising School in Detroit. Tom Maher, his son, was the first graduate of the school for sons of Ford dealers to receive his own franchise for a dealership.

Maher is a former president of the Dallas Automotive Trades Association. His bipther Louis is associated with him in Ed Maher, Inc.

Dawson Becomes Manager Of Delco-Remy Division

Delco Reiny Division of General Motors Corp., succeeding O. V. Badgley, who has retired after 41 years

Mr. Dawson



with the division

Dawson joined the division in 1925. He became clief engineer in 1932 and factory manager in 1940. He has been in charge of many of the developments in the automotive electrical field in the last decade, the GM amountement said. He has warked with a mumber of technical commutatives and screens.

One of the largest of GM's accessory units, the division has approvimately 13,500 employees.

Hearn Heads New Marshall Dealer Association

Ours C. Hearn of Ohn C. Hearn (Ford), Albertville, has been elected president of the new Marshall County (Ala.) Automobile Dealers Association. Ralph Suitth of Confers ville is vice-president and Bob Lee of Albertville is secretary freasurer.

Monthly meetings will be rotated among Boaz, Albertville and Guntersville.

You Can Reduce Cleaning Cost

You can reduce costs of keeping your shorr clean.

Partner W. F. Aldred says Hair Motor Co. (Ford) at Summerville, Ga., has realized a nice saving by using a roll of brown wrapping paper at each of the five mechanics benches. Paper is rolled out at the desired length and cut off as in shipping monis. It is placed on benches when durty greasy jobs are coming up. And it is spread under a car when durt or grease is expected from some under back each.

Aside from leaving more time for the part time clean-up man to devote to his other job of lubricating cars, this innovation has permitted the shop to be kept in a constantly clean condition, since mechanics wad uppaper after completing a job and throw it in a wastelysket.

Missourians Name Manager

James A. Gorman has been named manager of the Missouri Automobile Dealers Association. He will be as sisted by George D. Hippen, sectetary, whose time will be spent mainly on the group insurance plan.

Buick Names Missourian For Merchandising

Jons H. Scudder, a native of St. Louis, Mo., and formerly a day trict manager in the St. Louis zone, has been appointed director of mechandising for the Buick Motor Division. Scudder attended Washington and Lee and the University of Missonii. He joined Buick in 1946 as claims manager at St. Louis.

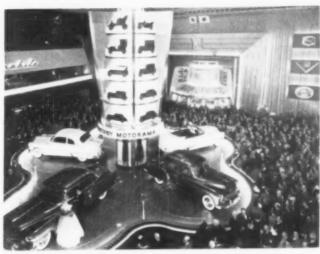
Scudder succeeds Robert F. Rudd, who has been named assistant general cales manager. Rudd joined Burck in 1940 and was for a time assistant zone manager at Kansas City and at a later date zone manager at St. Louis.

Flournov Heads Dealers

Seaborn J. Flournov of Bruse Flournov Motor Co., Norfolk, Va., was elected president of the Norfolk Portsmouth Automobile Dealers Association recently. W. C. Everett of Virginia Beach is vice-president and G. W. Knighton of Portsmouth is secretary-treasurer.

Tennesseans Change Site

The 1950 convention of the Tennessee Automotive Association will be held in Memplis instead of Chattananga, David P. "Doc." Whelchel, excentive vice-president, reported. The change was necessary because there were not adequate hotel facilities in Chattanoga Oct. 15-17, he said.



This "Pillar of Progress," showing advances in automotive design and engineering during the last 50 years, was one of the highlights of the Mid-Century Motorama, presented by General Motors Corp. at the Waldorf-Astoria January 19-27 to display its full line of 1950 models.

GM Show Gives a Glimpse At Car's Past and Future

Paocers of automobiles in the last the immediate future as represented by 38 models of its 1950 lines was presented by General Motors Corp. in its Mid-Century Motorania, held January 19-27 at the Waldorf Astoria Hotel in New York.

This second postwar showing of GM cars included two action features with live models and actors, as well as the new car models and many displace of technical processes and units. One of these, "Motors and Melo-

One of these, "Motors and Melodies," was presented on a revolving stage and described in a company an nonnecement as a "happy review of America on wheels throughout the first half of the century. The scenestouched on important periods in America from 1900 to 1950, with emphasis on the role the automobile has played in the development of the country. Actors and actresses in period costumes portrayed in pantonine the periods covered, with a back ground of appropriate music and marative.

"Mid Century Modes" was staged against the background of the 30-foot Pillar of Progress, which show ed advances in car design and engineering from the start of the century to the present. It was a style showing of current women's fashious, with live models posing with five GM cars. They were displayed by a moving me chamsan of turntables.

The displays of various mechanical features attracted a lot of attention also. One of these was an entire chassis revolving on pixots so specta tors could see if from all angles. An

(Continued on page 145)

"Just until we get the parts to repair your top mechanism."



Southern JOBBERS AND FACTORY MEN

Salesmen of Jefferson Cits Auto Supply Co. now present about 90 per cent of all statements, both current and past due. About 75 per cent of the accounts pay on the spot with this billing system.



Their Collection System Means

Smaller Accounts Receivable

The problem of collecting past due accounts can be most exasperating in any luxiness, and the automotive jobbing business is no exception.

Steam-ruller systems, suits and at tachments and cold form letters often do more harm than good, according to Ray II Kruse, manager, Jefferson City Auto Supply Co., Jefferson City, Auto Supply Co., Jefferson City, Alo, who has worked out a method that not only keeps the good-will of the enstoner but has reduced past due accounts receivable to a vanishing point.

While the method in use by Jefferson City Anto Supph has been devel oping over a period of years, the latest refinement has been to deliver the mouthly statement in person. This was a normal growth from the idea of sending past due statements out with salesmen to be collected at the time the regular call was made.

Now more than 90 per cent of all

By L. H. Houck

the statements, whether current or past due, are delivered in person by the salesman who sold the merchan dise. The result is that at least "5 per cent of the persons presented with the statement past at the time and save the expense of mailing it.

For example, Kruse explained, a salesman took out eight statements and brought back over elects.

Another advantage of this method is that the salesman usually gets there hast with his statement and consequently gets first freatment from the mines pot. It is the nature of the business, and no reflection on it, that thousands of customers of the jobbers of the country are small business men who use all their capital and to turn it over as tast as possible.

When a tight month shows up and the money to pay the suppliers is that the test man to show any with a statement usually gets his money and, strangely enough, he will also sell the most merchandise to that account the next month because he has been paid and the account will feel that the company owes him the merchandise.

Kruse carried a catalog when he was hardly 18 years old and he said he often remembers an old salesman for a competing company that he followed. This salesman collected from his own accounts and turned up impressive sales—a volume which could not be approached by others.

It was this salesman's habit, Kruse said, after visiting an account, to an manner, "Now is time to break bread for the Blank Auto Co.," and present the statement. If he didn't get all of the amount due, he would always make the same comment, "A mighty thin slice, but bread we must have."

It was his habit to always require the customer to produce some "bread." Customers expected it, he was usually paid first and because he had been paid he got the next orders from these customers. Krise said this was a valuable lesson in the relation of credit to merchandising.

Kruse emphasized that most people are honest and that his company only wants to do lusaness with people who are honest. On this basis, he pointed out, you are sure that the customer in tends to pay and is prevented from doing so by lack of money, which can stem from many causes—too much retail credit, bad management, lack of capital, lack of business.

At this point if the account is a month or so in arrears. Kruse makes a personal call, either with the salesman who handles the territory or alone. Iucidentally, Kruse visits all customers to get acquainted with them personally and so when he does show up, they know who he is. When he calls, he talks over the problems which are preventing the customer

from paying the bill.

In some cases, Kruse related, business has fallen off and the dealer has too much on his books and so needs a new start. By round table discussion it might be decided that the customer will go on a cash basis for a while and that he will pay the profit he makes on parts on the old bill. In nearly all cases the customer has offered to split the combined amount of profits on parts and labor and apply to the old bill.

Once the old account has been cleaned up and the business is ready for it, the open account is again extended. Kruse is opposed to C.O.D. accounts, believing that they serve to discourage the customer from buying from the company using them.

There are other situations, Kruse pointed out, where almost the opposite decision is made as a result of a personal conference. It often happens that the dealer can make more money if he has more credit extended. When this is the case the credit is extended, the merchandise is shipped and the merchandise is shipped to pay off the back debt and even the business up with the current bill. In both extremes as illustrated, it will be noted that the matter is handled in such a manner that the customes.

Collection methods? No set of rules will work for everyone, this Missourian found. Yet he believes there is a pleasant way to get the money under any condtions, like the man who operated a combination grocery, service station, garage.

will feel like continuing to buy from the company because the company has tried to help him.

In another instance, Kruse said, they were asked for credit by a contern which seemed to be headed for a C.O.D. basis with other suppliers, and obviously a bad risk as judged by

past performance

In this instance Kruse decided to visit the prospective customer and see what the satuation might be. He discovered to his astonishment that the man had \$100,000 worth of merchandise when \$30,000 would have been ample to do the volume he was doing. For instance, he had 30 to 40 sets of brake liming for one model car when his sales could only justify stocking three or four sets. He had been oversold on everything and had all his money tied up so he didn't have operating capital. Kruse discussed the problem with him and suggested reducing the stock to proper propor

tions and in the meantime they would supply him with essentials. The upshot was that the top-heavy businesswas turned into a successful concern and as a reward for his helpfulness Kruse enjoys the bulk of the business from this firm.

Another example concerned a small firm that actually did discontinue operations owing the company. Instead of filing a suit and getting a judgment of questionable value, Kruse held an other conference and the man agreed to pay something on the bill monthly. With a few telephone reminders, this agreement was carried out. The man is again in good shape and is planning on opening up a new automotive business at a better location. Instead of teching miffed about the collection method, he feels grateful.

Of course, Krise pointed out, no set of rules will work for everyone Yet he believes that there is some pleasant way to get the money under any conditions, like the man who operated a combination grocery, service

station and garage

He had been warned by credit agencies that the account was getting shaky and took due precautions and got the account on a cash basis. The operator paid cash on delivery for four or five months. But the payment of cash over a period of time does not necessarily mean a good ere dit risk. Then one day the operator was out and the salesman was asked to leave the merchandise. Almost before Kruse knew it, the account owed them a considerable amount.

Kruse went to see what could be (Continued on page 115)



If an account is a month or so in arrears, Ray II. Kruse (shown at extreme right) has a personal discussion with the customer to see how the bill can be paid without any hardship to either of them. The customer shown here was not one of those in arrears, however.



Here's a second look at Richmond Auto Parts, Inc., Richmond, Va. Last month a picture of the exterior was carried and here is the way the counter and machine shop looked at the time of the formal opening. No comment on the effectiveness of the layout is needed; the pictures speak for themselves as to the displays, arrangement of counter facilities and equipment in the machine shop. H. B. Truslow is president of this Virginia firm.

Southern Bearings & Parts Promotes O. H. Hamby

O. H. HAMBY, for the past 14 years sales manager of the Automotive Division of Southern Bearings and Parts Co., Inc., Challotte, N. C., has been promoted to manager of the Automotive Division. He will have full charge of the division under the direction of the officers of the rompany. President C. E. Beeson said.

Hamby joined the firm in 1924 and has held several positions in the sales department. He is well known in the industry. He is a past presi-





Mr. Hambs

dent of the Virginias Carolinas Automotive Wholesalers Association and has given emisiderable from to various associations in the automotive field.

Southern Bearings and Party is a pioneer in the replacement party field. The company was organized in 1921 in Charlotte and now operates stores in Winston Salem, High Point, Statesville, Fayettesville, Lumberton and Rockingham, N. C., and Lancaster, S. C.

Comer Rejoins Tuttle

I. I. Conner of Greensborn, N. G., has joined the sales force of the L. D. Tuttle Co., Dallas, Lexas, and will represent the Tuttle lines in North Carolina and Viginia. "Mr. Conner has worked for its before and he is well informed in the sales and service of the lines we have," Owner L. D. Tuttle said.

"We recently added Bear service equipment to our lines," President I. S. Simmons, Jr., of Simmons Parts Co., Inc., Stannton, Va., reported.

Have you fried the free coffee at John Rogers Co. in Atlanta? That area stands right up on its hind feet and gives you a real black look before you begin gulping.

Tex Ritter has mixed the force of the Jonesboro, Ark, store of Mills-Morris Co.

General conditions in our territory are on a steady incline." Glenn H. Day, manager of Cornelius Motor Supply, Inc., Pampa, Texas, reported.

Holland Auto Supply, Inc. Adds Another Building

Horasso Auto Supply, Inc., Greenville, S. C., tescuth acquired a building adjoining its original building and connected the two structures by taking down a wall. This gives the firm an additional 2, 200 square feet of space. The machine shop will be housed in the basement of the new building.

"We have rented a parking lot in the rear of our building so that we have suffraent parking space for all our accounts," Ned E. Holland said.

Am-Ben Appoints Alge

Alge Distributing Co., Inc., 367 Simpson St., N. W., Atlanta, has been appointed distributor in the Southeast and Southwest for Am Ben Corp. of Chicago, manufacturer of Wed Vice rear view mirrors.

Host Rice, city salesman for Coruclius Motor Supply, Inc., Pampa, Lexas, doubled volume during his first three months on the job, Manager Glen H. Day reported.

Amco Makes McNaughton Southeastern Manager

Let McNaughton is now for Asbestos Manufacturing Co. He will supervise sales in North and South Carolina, Georgia, Florida, Alabama and eastern Tennessee from headquarters in Atlanta.

McNaughton's offices will be at the new Ameo warehouse at 734 West Peachtree St. The warehouse will have a complete stock of brake

Jack Williams Dies At Fort Smith

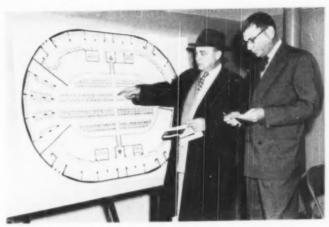
TACK Williams, executive vice-pieudent of Williams Hardware Co., Fort Smith, Ark, died recently after an illness of ten months. He was \$8.

Williams had been with the company for 19 years, having started in the stock room when he was 19. Dur ing the war he was a pilot in the Na val Air Force.

Survivors include his widow and twin sons, lack, Ir., and Joc.

Sealed Power Promotes Gray

Ed Gray has been appointed assistant sales manager of the Sealed Pow er Corp. He joined the firm in 1933 as a salesman and has also been a special sales representative and dis-



First to draw last month for space in the Southwest Automotive Show Tapner, left, representing Industrial Tape Corp. On the right is Elmer Miller of the Straus-Frank Co., who is chairman of the show committee this year. The show will be held March 23-26.

186 Exhibitors Assigned Space at Southwest Show

By Baron Creager Southwestern Editor

XIIIBUORS numbering 186 will was announced by the show office E display their wates at the Eighth Annual Southwest Automotive Show, March 23 to 26, inclusive, in the new Coliscum at San Antonio, Texas, it

after a space drawing last month in the Mission City

Space was assigned through the usnal procedure of drawing in accordance with seniority of exhibitors and it it had been available, more space could have been assigned, according to Dean Johnson, show manager. Because of the great demand for space, every possible area in the Coliseum

The usual kick-off banquet on the night of March 22 in the Plaza Hotel will precede the opening of the show the following morning. The banquet and all exhibitor personnel.

of the space drawing a publicity campaign to reach all branches of the automotive service industry got into full swing. 'Get It from Your Job-ber,' theme of this year's show, is being used in promotional material and will be incorporated in show

show from 1 to 6 p. m. on the first two days, from 1 to 9 p. m. on the third day and all day Sunday, fourth and final day of the exposition. Lickets have been supplied to spon-

Charlie Moorehead, who's done a well-known fine job handling the eredit department of Motor Parts & Supply Co., Inc., at Mobile, Ala., is also cultur of the firm's "Behind the Lines," In his January issue Charlie covered an important subject.

By now everybody is telling you how much they appreciate your business, and we do too, only it will be expressed in a little different way. It always helps to know what the score is, so it's a good idea to start by outlining our policies, which means our way of doing business:

- Our terms are thirty days only. We ain't millionaires, and if we let some go for sixty or ninety days we couldn't refuse all the rest. (See Uncle Sams Fair Trade Laws)
- We allow 2% discount if bills are paid by or before the tenth. do it on the 15th or 20th, or we would have to let everybody. Uncle Sams Robinson-Patman Act)
- On refunds or credit memos, we have to have the invoices or the number. Heck! Even Aresses will insist on that.
- 4. Merchandise kept 60 days is a little bit old to be returning for credit or refund. Wait 5 more days 'cause at 65 it can draw a pension.
- We want to deliver everything the minute you order it, but with only fire trucks and lots of customers it is a problem. Of course we could buy lk more trucks, but then we couldn't buy parts to haul in them, we could lose half of our customers, but then we couldn't make enough to keep up five trucks. Well, say something. Don't just stand there.
- SERVICE. Boy, that's a good word. It's like a fast woman. Every-body talks about it. When they talk about our service tho, they are letting somebody else alone. It sure ought to be good. Both us and our outcomers reise unshirted hell if it ain't.
- Products. Thank goodness we don't manufacture any of them. We can help you ouss them if you want to. The only trouble is we can't find anything better on the market. We are just like a hotel, if you don't see what you want, holler and we will get it for you. (Flease tip the belibby)

SERVICE



AND MAINTENANCE

When Voltage Drops in Starter Circuit

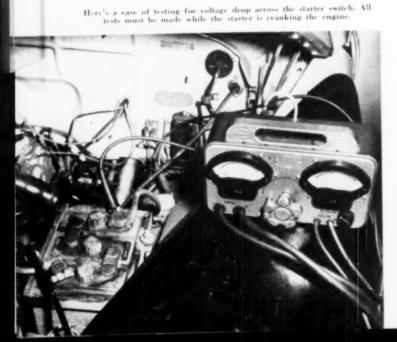
ment is still one or more in

You know, the fellows who make all the fuss about the "Boss" not buy ing any up-to-date analyzing equip

To make a long story short, the equipment was purchased and install ed. The company sent over an instructor to coach the men in its use. The expensive equipment was placed

in a conspictions spot (for sales ap-

There it sat-gathering dust. And the fellows continued to do the job the old way. When they were asked why the equipment was not used. their reply was it took too long. Yet, they spend hours guessing out a tough one, when correct use of the equipment will spot the trouble with in a very few minutes.





Ry F. M. Lowery Technical Editor

ble develops in the starter circuit. We a starter three times, changed the difficulty by replacing a solenoid switch whose contacts were badly and too much voltage drop. A voltmeter test across the switch would have saved all this wasted effort by

The starter curemt is the basic elecelectrical units of the vehicle depend for electrical energy. It these units are to operate properly, the starting

One of the greatest troubles found due to high resistance at various points. This resistance may cause the not be sufficient voltage to allow the and the engine will not start. Some of the boys are still condemning coals because of this

If trouble is indicated within the

March Issue: Brake-Squeak Antidotes

"Something's making my brakes squeak!" What to do about it when the complaint is received will be treated in the article by Technical Editor Lowery in March.

First, determine that the battery is in good condition and fully charged. Make a visual inspection of all cables for their condition. Connect an ammeter of 1000 ampere capacity in the circuit.

Connect a low reading voltmeter to the lattery terminal and to the starting motor terminal. Crank the engine in the normal manner and note the voltmeter reading.

The voltage drop should not exceed 0.25 volt per 100 amperes flowing in the circuit.

It the voltage loss is more than 0.25, check the loss from the battery to the starter switch, starter switch to motor and across the starter switch.

If the voltage drop in either cable is more than 0.10 per 100 amperes, inspect and find the cause. If cable and connections are in good condition and no defects are found, it indicates that the cable is too small and should be replaced with one of cornect size.

If the voltage drop across the switch is more than specified, the switch should be replaced

The above procedure should be repeated on the ground circuit by connecting the voltmeter to the battern ground terminal and to the starter motor frame. If this voltage drop is more than 0.15 volt per 100 amperes, check the voltage from the battern ground terminal to the engine block, and from the engine block to the

The first reading will be an indication of the lattery ground cable and connections. The second reading will indicate whether the starter motor is properly grounded through its mounting bolts. (When a starter motor has been removed for any carse, always clean the surface of the pinton houing and flywheel housing.)

If the above tests are within specific cations and it is found necessary to remove the starter motor for acconditioning, the bench test may dis-

Low free speed and high current draw with low developed tinque, which may be caused by

A-Tight, dirty or worn bearings. Bent armature shaft or loose fields

B.—Grounded armature or field

on growler and field windings with test lamn.

C.—Shorted armatune

Failure to operate with high curient draw, which indicates

A.—Frozen or halls worn shaft bearings.

B.—Direct ground in fields, witch or terminal.

Low free speed with low current draw which indicates

 A.—High internal resistance due to poor connections, defective leads or dirty commutator.

B.—Open field windings.

Failure to operate with no current draw which indicates:

A.—Open armature coils. Usually indicated by bally-burned commutator burs.

B .- Open field circuit.

C.—Weak or broken brush spaings, worn brushes, high commutator inica. Any of these conditions will cause borned commutator burs.

High free speed with low torque, which indicates

A.—Shorted field windings. Since the field resistance is very low, there is no casy way to test them. If short is suspected, replace them.

Testing Starter Motor Component Parts

1.—Field coil test for ground. Place test lamp leads to motor frame and field coil lead. If lamp lights, coils are grounded.

2.—Field coil test for continuous current. Place test lamp leads on field coil leads if lamp does not light, fields are open currented.

3 —Individual field coil test for ground. Break soldered connection and test each coil separately.

4.—Annature test for ground. Place one test lamp lead on armature and the other on commutator, if lamp lights, armature is grounded.

Armature test for short current: Place armature on growler, place hacksaw blade on armature, to tate armature, it saw blade vibrates, armature is shorted.

6.—Test insulated brush holder for ground. Place one test prod on end plate and one on insulated brush holder if lamp lights, brush holder is grounded.

7.—Commutator Inspect for roughness and burned bars. Resolder any loose leads to riser bars. Turn commutator in lather and clean up with No. 000 sandpaper.

At 90 miles per hour the ignition system of an 8-exhinder automobile delivers 500 sparks per second, and each spark is timed within 1/10,000th of a second, according to the Delen-Remy Disason of General Motors.

"I've got your transmission job whipped and vice versa,"



Servicing the Ford Regulator

By Lynn F. Snoddy

Considering that so much has appeared in print in regard to the checking and adjustment of other generator control units, it seems strange so little has been published that would apply to those used on the cars and trucks of Ford manufacture. These regulators can be serviced quite as well as some of the other leading makes.

To be sure, there are times when burned points, high imleage or the general beat up appearance of any regulator indicates the sale of a new unit; also occasions when time saved means more to a customer than the cost of a new regulator. However that may be, it is nevertheless a fact that often a little know-how where these regulators are concerned may mean the difference between a satisfied customer and one who thinks he is just being sold something.

Essentially there is no difference in principle between the Ford regulator and those with which we are familiar. As most of us know, the output of generators is controlled by increasing or decreasing the strength of their field, so it matters not whether this is done by leading the current out of the field to ground or by sending cur cent into a field the other end of which is already grounded. In eith er case the field strength can be varied by means of the regulator. It is the latter method which is used on the Ford system, current from the arma ture being admitted to the field and the amount controlled by the spring tension of vibrating points precisely in the same manner as on most other units. So we will proceed with what is encountered with the muts in ac-

Before we can service any regulator, we must first make sure the trouble is actually in that particular mut of the system, so let's assume one of the cars equipped with a regulator of the type under discussion drives into the short.

The complaint in this case is "generator not charging," so we proceed to make a preliminary check. Using a reliable voltmeter of ten volts or more scale and one capable of reading

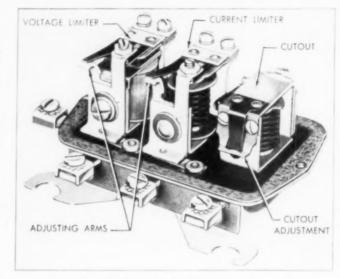


Fig. 1.—Generator regulator assembly with cover removed.

one tenth of one volt, we connect the negative lead of the meter to the amastine terminal of the regulator and the positive lead to a convenient ground. With the engine dead or iding, the meter connected in this manurer should read battery voltage, or approximately six volts. If when the speed of the engine is increased the voltage reading also increases, the generator is changing.

But suppose that when the engine speed is increased the voltage remains the same. We connect jumper wire from the armature terminal of the regulator to its field terminal, thus cutting the regulator out of the cuenit. If the nieter now indicates the generator is charging, the trouble is definitely in the salate.

Of course, there can be a broken field wire from generator to regulator, but that's caw to check for. We simply connect our jumper from the armature or large terminal of the generator to its field or small terminal. If the meter in this case indicates the generator is charging, we know to look for a broken wire.

One more check should be made here before condemning either the generator or regulator. There may be a ground in the wire from generator amount to regulator, in which case the generator current will all go to

A good check for this is to disconnect the wire from the armature terminal of the generator, attaching the voltmeter lead in its place and leaving the jumper connected from this terminal to the field. Slowly increase the speed of the engine. If the voltage increases rapidly, tending to go off scale or otherwise "run wild," the generator is okay.

Care should be exercised in this test not to speed the engine too high or too long as the excessive voltage generated on open circuit can damage the windings of the generator.

Having determined the regulator to be definitely at fault, we proceed to remove it from the car, punch out the rivets and remove the cover. There are on the market tools for removing and replacing the cover rivets with the regulator in place; but lacking that, it is always an easy job to remove the unit and a still easier one to replace the rivets with sheet metal series.

Visual inspection is all important in servicing any regulator, so we give this one a good looking-over for such things as burned points, broken wires, loose resistors, etc. One automotive electrician for whom we have great re-

Illustrations courtesy of "Lincoln-Mercury Service News,"

spect states he can repair any regulator but it is not always wise or profitable. Deciding this one is worth repairing, we either clean the points or replace them, if new ones are available, and repair such other damage as we are able, remembering we are servicing regulators, not rebuilding them.

In reassembling it is, of course, wise to make sure of proper point alignment. Air gap is important and the following specifications apply to all Ford regulators built during the

Voltage control air gap, points closed, .032.035 meh armature to core. Current lumiter air gap, points closed, .032.035 inch armature to

Cut-out air gap, points closed, 914. Air gap adjustment of the voltage and current regulators is made by means of the series and bass mut at the top of each one. The gap of the suf-out relay points is adjusted by bending the brass lip at the top or by loosening the screws holding the lower point which will allow it to be

These regulators can be checked and adjusted either on or off the car, provided there is proper equipment, but since the majority of shops are only equipped for on-the-car service, we will handle this one in that way. In these days just about every shop of whatever size has some sort of equipment for checking regulators. Most of it is good when properly used. Special equipment for Ford regulators is not necessary. As a general rule, what ever test equipment has been used successfully for other regulators can also be used in checking those on the Ford product vehicles.

Space does not permit us to go into detail concerning more than one type of equipment, so the test equipment used in this case will be that illustrated in Fig. 2. The circuit has been broken at the regulator by disconnect.

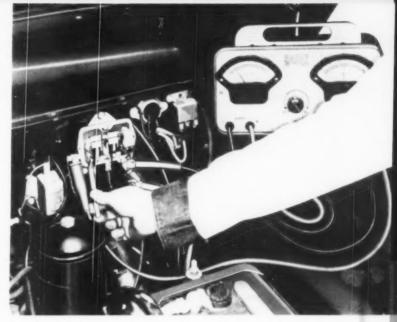


Fig. 2.—Adjusting voltage arm tension with bending lever tool.

ing the battery wire and connecting the negative ammeter lead in its place, the positive ammeter lead being attached to the disconnected battery wire. The negative voltineter lead is shown connected to the battery terinnal of the regulator, the positive lead to the regulator ground terminal.

We start the engine and adjust its speed to approximately 1,500 R.P.M., or a car speed of 30 miles an hour. If the work on the regulator has been properly done and there are no hidden defects, such as broken wires inside the windings, the generator should now be charging with the voltage approximately correct and the animeter reading somewhere between 20 and 30 amperes. From the former checks we know the generator to be okay, so just what the animeter reads

at the point is important.

We allow the engine to run at this speed for two or three minutes (providing the voltage does not run excessively high). This is to allow the battery voltage to build up and the voltage control to reach its "working point." This point will be when the voltaneter needle has ceased to climb and remains steady or perhaps oscillates slightly (two much oscillation can mean pour point contact).

Consulting our specifications, we find that on all Ford product regulators the voltage control setting is from 7.0 to 7.4 at a temperature of 70 to 80 degrees F with cover in place. If the voltineter reading is not within those limits, it will be necessary to bend the spring support arm to change the tension of the spring wherh will after the working voltage of the regulator. In setting the voltage control, it is inservany that the generator be changing from eight to ten suspecss. If the charging rate is into within these limits, it may be necessary to furn on lights or adjust the reastance knob of the test instrument to obtain this reading on the

When the voltage reading is at last within the proper limits, we are still not finished with it. The regulator must be "cycled," that is, the engine allowed to idle and again revised up to the working point of the regulator. This cycling is necessary to make sure the voltage will not climb beyond the point of our previous setting. If we

Generator Regulator Specifications

	Ford-Mercury	Lincoln				
Voltage (70 to 80 F.)	7.0-7.4 volts	7.0-7.4 volts				
Current limit	34-38 amperes	38-12 amperes				
Cut-out closing voltage	6.0-6.1 volts	6.0-6.1 volts				
Amperes to open	0-8.0 amperes	0-8.0 amperes				
Air gap (regulator armature to core)	.032035 inch	.032-,035 inch				
Air gap (cut-out armature to core)	.014 inch	.014 inch				

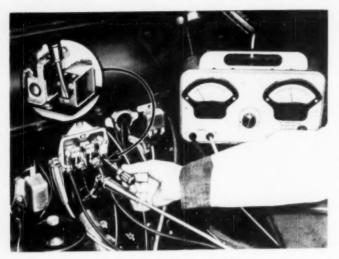


Fig. 3-Adjusting generator cut-out.

are wise, we will reset the voltage if needed and again eyele the regulator a time or two before the final adjust ment is arrived at.

Because the steel covers used on the late-type units affect the magnetism of their windings, the voltage with cover off will be approximately two tenths of a volt greater than with cover in place. Thus to obtain a setting of 7.4 with cover in place, it will be necessary to set regulator 7.6 with cover removed.

The "ent in" point of the cut out or relay is next in order for checking and, if need be, adjusting. Again consulting the specifications, we find this unit must close at from 6.0 to 6.4 yells and open at from 0 to 8.0 impress disclores among

For this check we use a slighth different hook up of the instrument leads, though it would be possible to use the same one. The collinging negative lead is brought from the battery terminal of the regulator to the armatine terminal, the other leads being left as they were. (This is the hook up shown in Fig. 3.) It may be necessary to reduce the engine speed below its normal idle to obtain the conditions we require, that is, no reading on the voltmeter or animeter.

When this is done, we slowly in crease the speed of the engine while watching the meters. The voltineter should show a slow and steady in crease in voltage until the needle drops back slightly, then goes ahead again. At the same time this deflection of the voltineter occurs, the ammeter should indicate a slight movement. This is the point at which

the cut out points close—in other words, the "cut in" point or the instant at which the generator starts scuding current to the battery. Just vesterday we read of using carphones to listen for the click of the points closing. The idea sounds fine, but in this case we have no carphones so must depend on the method just described and watch the instruments.

Should point-closing not be within the specifications, it is necessary to bend the spring support shown in Fig. 3. Decreasing the spring tension allows the points to close at a lower voltage, mercasing has, of course, the opposite effect.

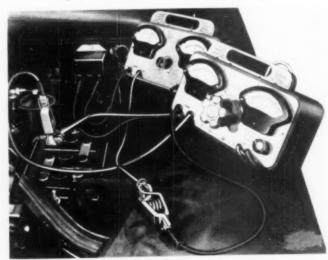
It is not enough to be sure the cut out points are closing properly; we must also make sure they will open when the engine is stopped and not discharge the battery through the generator. To make this check the engine speed is slowly reduced while watching the animeter. When the needle reads between zero and \$.0 amperes discharge, the points should open and the animeter return to zero. Improper air gap or pitted points are more likely to be the cause of failine of the points to open properly than is the spring tension of the armature.

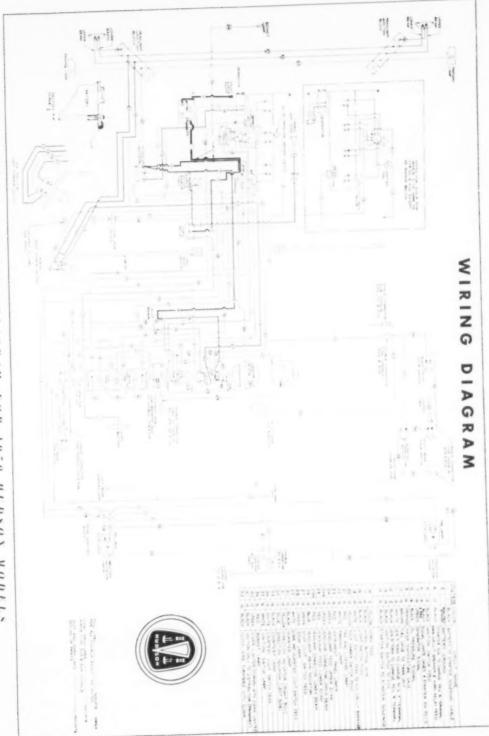
There is one more unit to check and perhaps adjust before we can call this regulator properly serviced and ready to go back to the mad. That's the current limiter. As on most other regulators, this current limiter is there solely as a safeguard. In case something happens to the voltage control, the current limiter, if working properly, can prevent damage to the generator. It is seldom found out of adjustment, but we should at least know how to service this unit.

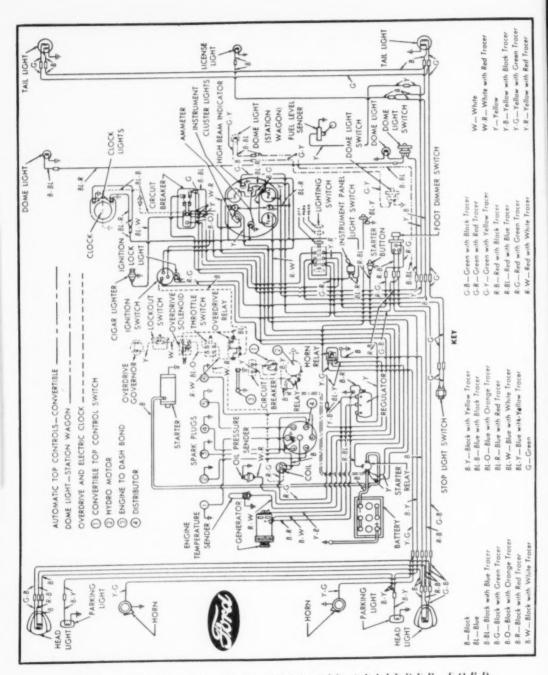
More than one method can be used in checking the current limiter. In this case we could use the same instruments and hook up shown in Fig. 2, turning on all lights, radio, etc., perhaps pushing the starter button to create a load above that for which the current limiter should be set. For purposes of illustration, however, we are going to use the method shown in Fig. 4. Here the negative lead of

(Continued on page 112)









WIRING DIAGRAM FOR 1950 SIX-CYLINDER FORD

Studebakers progress is red hot news!

"Not only has Studebaker boosted its own total output, it has nearly doubled its share of the total automobile market."

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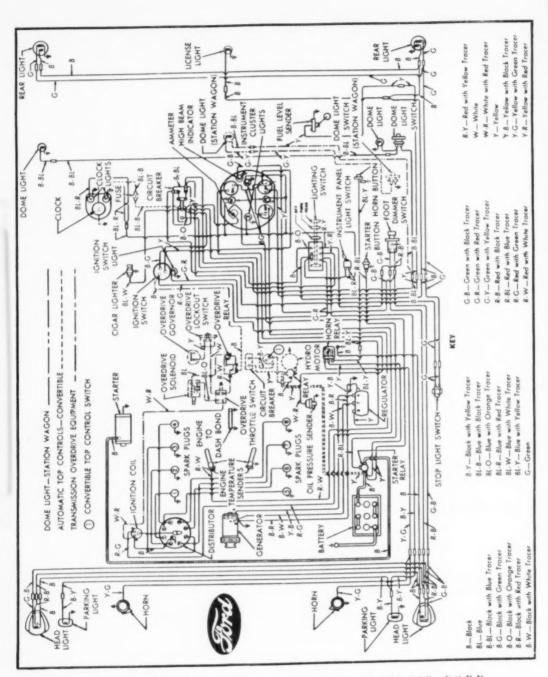
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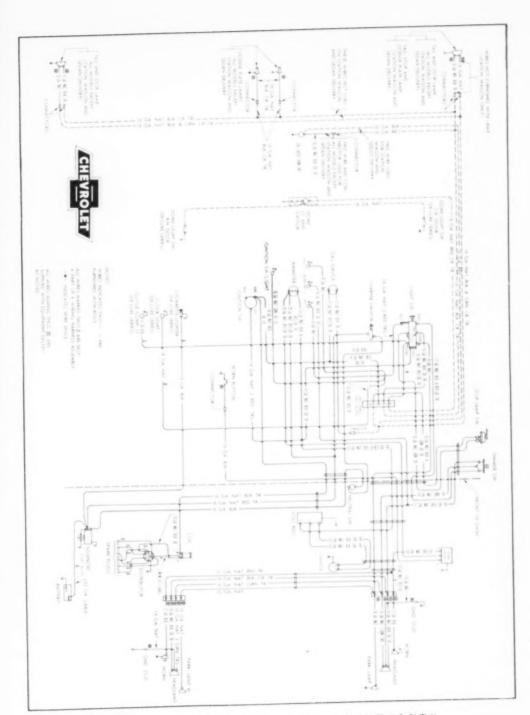
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WIRING DIAGRAM FOR 1950 EIGHT-CYLINDER FORD



WIRING DIAGRAM FOR 1950 CHEFROLETS

CURRENT PASSENGER-CAR SPECIFICATIONS Engine and Equipment

ENGINE

		35						RI	NGS	OIL				
MAKE AND MODEL	Std. Wheelbase	No. Cylinders and Valve Arrangement	Bore and Stroke	Taxable H. P.	Max. Rated H. P. at R. P. M.	Camshaft Drive	Main Bearings	No. and Size Comp	No. and Size Oil	Crankcase (qts.)	Air Cleaner	Oil Filter	Vibra. Damper	Carburetor
BUICK 40 Special	1211-	8.J	31 g x 41 ,	30.63	115@ 3600	LB	5	20937		6^{1}_{-2}	AC	Y	Y	St-C
BUICK 50 Super except	1211-	8J	35 to x 45 s	32.51	124(a 3600	LB	5	2-,0937	11865 11875	6^{\dagger}_{2}	AC	Y	Y	St-C
Model 52 BUICK Model 52	1251	8.J	3 k x 4 5	32.51	124(a 3600	LB	5	20937		610	AC	Y	Y	St-Ca
BUICK 70 Roadmaster ex-	126%	8,J	35 6 x 4 16	37.81	152@ 3600	LB	5	2 . 0937	11865	8	AC	Y	Y	St-C
cept Model 72 BUICK Model 72	130%	8J	37 ₁₆ x 45 ₁₆	37.81	152(a-3600		5	2-,0937	11865	8	AC	Y	Y	St-C
CADILLAC 61 CADILLAC 62 CADILLAC 60-S CADILLAC 75	126 126 133 136 ¹ 4	8J 8J 8J 8J	3 ¹³ 16 x 3 ⁵ 8 3 ¹³ 16 x 3 ⁵ 8 3 ¹³ 16 x 3 ⁵ 8 3 ¹³ 16 x 3 ⁵ 8	46.5	160@3800	LB LB LB	5 5 5 5	20781 20781 20781 20781	11875 11875 11875 11875	5 5 5	AC AC AC	N N N N	Y Y Y Y	Ca Ca Ca
CHEVROLET Styleline and Fleetline Sp. & DeLuxe CHEVROLET Sty. & Fleet with Powerglide Drive	115 115	6J 6J	31 2 X 33 4 39 6 X 31 6	29.4 30.4	92(a 3400 105(a 3600	G G	4 4	21237 11237 10932	1 .1863 1 .1863	5	AC AC	N1 N1	Y	RP RP
CHRYSLER Royal & Windsor CHRYSLER Saratoga & N. Y. CHRYSLER Crown Imperial	125½ 131½ 145½	61 81 81	376 x 452 354 x 474 354 x 474	28.36 33.8 33.8	135(a, 3200	Ch Ch Ch	4 5 5	20937 20937 20937	21562 21562 21562	5 6 6	AC AC	Y Y Y	Y Y Y	Ca Ca
CROSLEY Model CD	80	4J	$2^{1}_{2} \times 2^{1}_{4}$	10	26.5(a)5400	G	5	20625	2155	2	AC	Y	N	T
DeSOTO S-14 DeLx. & Custom	1251-9	61	376 x 414	28.36	112@3600	Ch	4	20937			b	Y	Y	Св
DODGE Coronet & Meadow DODGE Wayfarer	1231-2	6I	3% x 4% 3% x 4%	25.35 25.35	103(a-3600 103(a-3600	Ch	4	20937 20937	21562 21562	5	b	Y	Y	St
FORD & Custom 8 Cyl. FORD & Custom 6 Cyl.	114 114	8I 6I	356 x 354 3.3 x 4.4	32.5 26.1	100@3600 95(a 3300	G G	3 4	2093 2093	2186 2186	5 5	$_{\mathrm{Y}}^{\mathrm{Y}}$	$_{Y}^{N^{\dagger }}$	Y	Own Ho
FRAZER	1231_{2}	61	3516 X 43 8	26.3	112(a.3600	Ch	4	20935	21550	5	AC	Y	Y	Ca
HUDSON Pacemaker	119	61	$39_{16} \times 37_{\times}$	30.4	112(44000	Ch	4	2078	21875 .156	7	AC	N	Y	Ca
HUDSON Super 6	1237 5	61	3916 x 43 s	30.4	123@4000	Ch	4	2078		715	AC	N	Y	Ca
HUDSON Super 8	1237 .	81	3 x 4½	28.8	128@4200	G	5	2093		8	AC	N	Y	Ca
KAISER Special	1231-5	6I	35 ₁₆ x 43 s 35 ₁₆ x 43 s	26.3 26.3	100(a.3600 112(a.3600	Ch	4	20935 20935	21550 21550	5	AC AC	Y	Y	Ca Ca
LINCOLN Cosmopolitan	125 121	V8 V8	312 x 438 312 x 438	39.2 39.2	152@3600 152@3600	G	3	20933 20933	1-186 6	1 **	AC AC	Y	Y	Но Но
MERCURY	118	V8	33 ₁₆ x 4	32.5	110@3600	G	3	20933	2186	D	AC	Y	Y	Но
NASH Statesman NASH Ambassador	112 121	61 6J	$3\frac{1}{3}$ x 4 $3\frac{3}{3}$ x $4\frac{3}{3}$	23.44 27.34		Ch Ch	4 7	$\substack{2-,0930 \\ 2-,0930}$		5 6	AC AC	N N	$_{\mathrm{Y}}^{\mathrm{Y}}$	Ca Ca
DLDSMOBILE 76 DLDSMOBILE 88 & 98	$\frac{1191_{\frac{1}{2}}}{1191_{\frac{1}{2}}}$	6I 8J	3 ¹ 22 X 4 ³ 8 3 ³ 4 X 3 16	29.9 45.0		LB LB	4 5	20937 2087		5 5	AC AC	N N	Y	Ca V
PACKARD 8 PACKARD Super PACKARD Custom	120 127 127	SI SI	31 ₂ x 33 ₄ 31 ₂ x 41 ₄ 31 ₂ x 45 ₈	39.2 39.2 39.2	150(a 3600	Ch Ch Ch	5 5 9	20233 20233 20233	1 . 0935 1 . 0935 1 . 0935	777	AC AC AC	N N Y	Y Y Y	Ca Ca Ca
PLYMOUTH P-19 DeLuxe	111	6I er	314 x 415	25.35 25.35	97(a 3600 97(a 3600	Ch	4		21562 21562		f	N Y	N	Ca Ca
Sp. DeLuxe PONTIAC 6 PONTIAC 8	1181 ₂ 120 120	6I 6I 8I	3% X 4 31 X 31	30.4	90@3400 108@ 3600	M	1 5	20937	11875	5 5	AC AC	N N	Y	Ca Ca
STUDEBAKER Champ 9G STUDEBAKER Cmdr 17A STUDEBAKER Land C 17A	113 120 124	6I 6I 6I	3 x 4 35 x 43 3 16 x 43 4	21.6 26.33 26.33	85(a 4000 102(a 3200 102(a 3200	GGG	4 4 4	d 20937 20987	11562 11875	5 6 6	AC AC	A Y Y	$_{Y}^{Y}$	Ca St St
WILLYS Jeepster & Sta. Wag WILLYS Station Sedan	104 104	4I 6I	31 x 43 x 31 5	15.6 21.6	63(a.4000 72(a.4000	G	3 4	2 16"	1-36" 1-36"	4 5	AC AC	Y	N Y	Ca-Zn Ca-Zn

ABBREVIATIONS

B 6 dry 5 refill
d Top 0937. Middle 125
f A. C. United Specialities and InGenry Great Wire Cloth Products
H. Holley
H. Holley

Application of the Control of the Control

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PISTON RING DEPT., Baltimore 3, Md.







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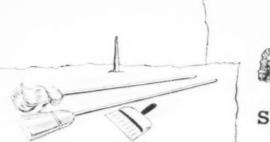
CURRENT PASSENGER-CAR SPECIFICATIONS Timing, Battery, Brakes, Etc.

			IGN	ITIO	N AND		Battery	heate	Cli	utch	Faci	ngs	Bra ke			
MAKE AND MODEL	Breaker Gap 0	Spark Plug Gap (.0)	Tappet Clearance Intake (.0)	Tappet Clearance Eshaust (.0)	Intake Valve Opens b or a TDC	Cam Angle (degrees)	Breaker Point Arm Ten- sion (ozs.)	Cyl. Head Bolt Tension (ft. lbs.)	Cap. and Ter. Gd.	Cool System Qts. No h	Make	Thickness	Outside Diameter	Inside Diameter	Type	Parking Brake
BUICK 40 Special	15	25	15h	15h	13°b	X	19-20	65-70W	100N	13	L	125	10	6	Н	R
BUICK 50 Super	15	25	d	d	13°b	X	19-23	65-70W	100N	13	L Bb	.125	13	6	Н	R
BUICK 70 Roadmaster	15	25	đ	d	14°b	X	19-23	65-70W	120N	1736			use	d	Н	R
CADILLAC 61 CADILLAC 62 CADILLAC 60-8 CADILLAC 75	15 15 15 15	33-38 33-38 33-38		au au au	19°b 19°b 19°b 19°b	31 31 31 31	19-23 19-23 19-23 19-23	70-75W 70-75W 70-75W 70-75W	115N 115N 115N 115N	18 18 18	L L L	137	10½ 10½ 10½ 11		H H H	RI RI RI
CHEVROLET Styleline and Fleetline Sp. & DeLuxe CHEVROLET Sty. & Fleet.	18	35	06h	13h	1 a	34	17-21	70-80W	100N	15	0	. 135	91.	615	Н	RV
(with Powerglide Drive)	18	35	d	d	16°b	34	17 21	70-80W	100N	16	No	эе	use	1	H	R
CHRYSLER Royal & Windson CHRYSLER Saratoga & N. Y CHRYSLER Crown Imperial	20 18 18	35 35 35	08h 08h 08h	10h 10h 10h	12°b 12°b 12°b	34 J - 38 27 - 30 J 27 - 30 J	17-20 17-20 17-20	EW EW EW	120P 135P 135P	17 21 21	Bb Bb Bb			6 6 6	H H K	P
CROSLEY Model CD	20	25	()4	06	5*0	46	17-20	No	90P	4	0	.125	6	4	G	A
DeSOTO S-14 DeLx. & Custom	20	35	0811	10h	12-b	34] 38	17-20	EW	114P	17	Bb	.125	914	6^{2}	H	P
OODGE Cor., Mead & Way	20	35	08h	10h	H"b	31]-38	17-20	EW	105P	15	Bb	.125		6	H	P
FORD & Custom 8 Cyl. FORD & Custom 6 Cyl.	14-1¢ 24-2¢	28-32 28-32	13-15 9-11	17-19 13-15	5 b 11 °b	26-28) 35-38	17-20 17-20	65-70 65-70	90P 100P	22 17.3	L	.125		6	H	R
FRAZER	20	32	10c	14c	10.0	38	17-20	30-35c	105P	1310	T	.125		6	Н	R
HUDSON Pacemaker HUDSON Super 6 HUDSON Super 8	20 20 17	32-45 32-45 32-45	08h 08h 08h	10h 10h 10h	715°E 715°E 102 ₃ °E	38	17-20 17-20 17-20	70-75W 70-75W 45-50W	100P 120P 120P	18f 19f 17f	0 0	.203	913 je 913 je	$6^3 \times 6^3 $	D D	R R R
KAISER Spec & DeLuxe	20	32	10c	14c	10°b	38	17-20	30-35c	100P	15	Bb	125	91_4	6	H	R
LINCOLN Cosmopolitan	14-16 14-16	24-26 24-26	311 311	au	5 b 5 b	26 28 <u>1</u> 26 28 <u>1</u>	17-20 17-20	65-70 65-70		34 1 34 1	L		$\frac{101_2}{101_2}$	7	SS	R
MERCURY	14-16	24-26	11c	15c	10°b	$26-28\frac{1}{2}$	17-20	65-70	100P	$22\frac{1}{4}$	Bb	125	10	634	S	R
VASH Statesman	18-24 18-24	30 30	15 15	15 18	6°b 612°b	35 35	$17-21 \\ 17-21$	60W 70W		14 17	Bb Bb	125	8 10	53.8	H	R
DLDSMOBILE 76 DLDSMOBILE 88 & 98	20 12-17}	40 30	08h	11h	5°b 14°b	35 22	17-21 19-23	60-70W 60-70W		$\frac{18^{1}}{21^{1}}$	Bb	125	10	7	H	RI
PACKARD 8 PACKARD Super PACKARD Custom	15 15 15	27 27 27	07 07 au	10 10 au	1275 bU 1275 bU U	Z Z 27	17-20 17-20 17-20	60-62 60-62 60-62		18 19 19	L L	au	10½ au	634 7 au	H H	RV RV
PLYMOUTH P-19 DeLuxe PLYMOUTH P-20 DeL & Sp. DeL	20	35 35	08h 08h	10h	12°b	31 <u>j</u> 38 31 <u>j</u> 38		EW		15 15	Bb T		91,	61 ₈	Н	Ps Ps
ONTIAC 6 ONTIAC 8	22 16	25 25	11 13 11 13	11-13 11-13	5 b 5 b	35 26	17-21 19-23	60W 60W		18 201	Im Im	125		6	SS	RV RV
TUDEBAKER Champ. 9G TUDEBAKER Comdr. 17A TUDEBAKER Land C. 17A	20 22 22	22-27 22-27 22-27	16c 16c 16c	16c 16c 16c	15°b 15°b 15°b	39 y 31-37 31-37	17-20 17-21 17-21	46-50W 80-85W 80-85W	100P	10 13½ 13½	Bb Bb Bb	.125 .125 .125	8 914 914	53 s 6 6	H. H.	RV RV
VILLYS Jeepster & Sta. Wag	20 20	30 30	14 14	14 14	9°b 5°b	39 34 ¹ / ₂	17-20 17-20	60-65 60-65	100N 100N	11 9		.135 .135		51/s 51/s	H	RV

ABBREVIATIONS

- BBREVIATIONS

 | John DeLa with all lapsed | d Hydraulic valve litters | L. Long Mg | Service | Ser



spring cleaning

is easy with Nor'way Cleaner or Quick Flush! Removes that winter crust of rust, sludge, scale and goo that drains a car's pep! Then plug up holes with Nor'way Stop Leak. Stop Leak flows freely until it hits air, when a tough, cement-like seal forms quick so only the hole is plugged.



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SOLD ONLY THROUGH JOBBERS

The Lincoln six-passenger coupe has an improved Hydra-Matic transmission and a high-compression Vtype 152-horsepower power plant.

1950 Lincolns Feature Improved Steering

The 1950 Lincolns, introduced fannary 26, have a 15 per cent reduction in steering effort through refinements and changes in the steering mechanism, Benson Ford, vice-president and general manager of the Lincoln Mercury Division, said in making the announcement.

A 50 per cent more efficient handbrake of the straight pull type and better oil economy through three-ring pistons are other mechanical features. The rings are said to give better temperature control and a more stable piston.

A three-point wedge belt drive reduces shippage and give uniform wat er pump performance. A five-bladed fan, which operates at 16 per cent slower speed, reduces noise level.

Has Heavier Frame

The 1950 models have heavier frames for greater rigidity. Noise-te-ducing, puck-type engine mounts are another feature.

The door locks and radio receiver have been improved and the gearshift knob has been redesigned for greater ease of handling.

Better engine performance has been achieved by improvements in the carburetor, automatic choke and spark control. These refinements are said to make the engine start in less than two seconds at zero temperatures.

Idling speeds are lower when engine is started after standing, giving a minimum of creep when starting a warm engine equipped with the Hydra-Mate transmission.

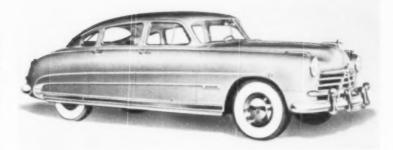
There are new conrtesy lights in the front and rear. Parking lights have been redesigned, using plastic lenses which are less apt to break.

Fiberglas sound-proofing insulation is now used both as a roof pad and behind the dash to reduce engine noise

Freshair tubes have been taken out of the engine compartment and relocated in the wheel housing. A redesigned air inlet to the side cowl provides ventilation across the driver's feet and nearly doubles the air supply for summer driving, company engineers said.

About 50 per cent more warm air is forced into the car by the addition of a larger blower on the heater.

The 1950 Hudson Commodore Custom Eight sedan is five feet high and features "stepdown" design and Monobilt body-and-frame construction. A number of refinements in both exterior and interior styling have been incorporated in the line.



More Powerful Engine Highlights Hudsons

A MPROVED L-head, high-compression Super-Six engine, rated at 123 horsepower, is being used on the 1950 Hudsons. The companion Super-Eight engine is now rated at 128 horsepower.

The Super-Six is pressure-lubricated by a system to reduce recirculation of sludge. It has a bore of 3 9/16 inches and a stroke of 43s inches with a displacement of 262 inches. Compression ratio is 7.2 to one with a high-compression aluminum head.

Tappets are newly designed mushroom type and are pressure-lubricated. Positive rotation of tappets is assured by use of an angular cam surface, increasing tappet life and adding to quieter operation, company engineers said.

A cooling system of the closed pressure type has been introduced in the new models. Operating at a pressure of seven pounds, this system is said to prevent overheating in slow-moving traffic. Improvements in the cellular tubular radiator, coupled with a long-life water pump seal, give better engine cooling without loss of coolant.

Transmissions have been redesigned to permit easier, smoother shifting at all speeds. The Fluid Cushion, single-plate clutch has been re-engineered to reduce the possibility of grabbing or chattering. The oil-pump gear has been redesigned to give longer life through surface treatment of the face of the pump and camshaft rears.

The Super-matic drive, an automatic transmission which can be changed to conventional drive by the touch of a button on the instrument panel, is available as optional equip-

Improved operation of overdrive has been made possible through use of a larger steady bearing at the planet gear, a simplified relay and solenoid equipment, as well as the addition of a fuse to the system.

The ignition system of the 1950 cars has been improved. A neoprene-covered high-tension cable used on the spark-plug wires is water-resistant. Spark-plug seals are provided to reduce starting failure due to high-humbility conferences.

The ignition coil is placed closer to the distributor, providing a better spark, permitting better water-proofing and reducing interference with radio and television receivers. A new high capacity shunt type generator gives higher output at lower speeds. A high-torque starter gives faster starts in cold or wet weather.

No-Oil-Change Filter Developed for Car

A FILTER which permits a car to be driven without ever changing the motor oil has been developed, according to J. F. Housley, power manager at Marveille, Tenn., for the Alumnium Co. of America.

The filter does not maintain oil supply, he said, and it must be replenished as it is spent by the engine. Cars of three different makes were driven 40,000 miles with the treaters and bearings were not putted as they ordinarily would become after 18,000 miles. Housley said.

The cartridge contains activated alumina, a porous substance obtained

Obtaining Better Service From "Wet" Batteries

A BECENT Service bulletin from The Studebaker Corp. gives the following maintenance tips on "wet" batteries

"Wet" batteries, those which have been filled with distilled water, cannot stand neglect and must re-everegular care if they are to provide full service life to the purchaser. Such batteries as those in showroom deplay vehicles, vehicles in storage, must tor-sale of your used-car and truck lot and, in some cases, those in display racks in your parts department—all must receive regular inspection, test and service to keep them active and charged.

When a storage battery is fully charged, the electrolyte is at its maximum strength or highest specific gravity. When the battery is puth discharged, a portion of the electrolyte combines with the active material on the plates to produce a sulphated condition. On charging the battery, this process is reversed and the sulphate is transferred back to the electrolyte.

Batteries should not be permitted to stand for any length of time in a sulphated condition or damage to the plates may result.

The following presentive maintenance precautions should insure fullycharged batteries at all times. Perhaps the service manager will want to give to one man the assignment of battery care, selecting, for example, the first and fifteenth day of each month for this man to check all the batteries in the dealership.

1.—Check water level in each cell. If level is too low, add distilled water as required to reach proper level and make no further tests until the fol-

 With a hydrometer, preferably one which includes a temperature conrection scale, test specific gravity of electrolyte in each cell.

Specific gravity of electrolyte corrected to 80° V indicates following condition of cell-

 Sp. Gr.
 State of Charge

 1.280
 Fully charged

 1.250
 75% charged

 1.220
 50% charged

 1.190
 25% charged

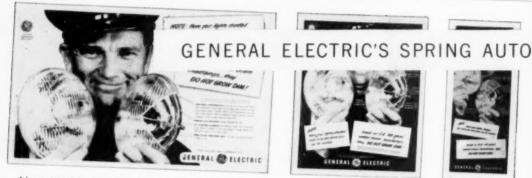
 1.130
 Dicharged

3.—If specific gravity corrected reading is 1.250 or less, recharge the batters.

 If battery is to be delivered before next test period, specific gravity should be brought to 1.270 or above, according to the bulletin.



CHECK UP



campaign includes 2-page spread in Mar. 18 Saturday Evening Post . . .



... full page in Callier's Apr. 29 ... half page, Callier's Mar. 11.

CHECK THE LIGHTS OF EVERY CAR LEFT FOR

OUT OF EVERY 6*! DEALERS' PROFITS LAST





THIS YEAR'S PROMOTION IS BACKED BY THE STRONGEST

STOCK UP ... TIE IN ... GET STARTED NOW!

* Survey by Police Chiefs' Association reveals that one car out of every six needs essential lamps.

SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950

'N RING UP!



LAMP PROMOTION STARTS MARCH 1ST!



New Lamp Guide lists right G-E lamps for every socket . . . for every car. It's handy, easy to use.



Lamphalder puts "sell" in windows counter

CHANGEOVER! RING UP EXTRA SALES ON 1 CAR

YEAR PROVE IT PAYS!



Big action getting poster for inside or out.



Handy, Snap-on Memo Card



Aiming Screen and Sign. Screen - \$2.50 (other sales aids free).

ADVERTISING AND SALES HELPS EVER.

To get your Spring Auto Lamp Promotion Package, with all the sales aids shown here, call your G-E Lamp supplier.

GENERAL (ELECTRIC

Readers are invited to contribute to___SHOP TALK

LIKES "BEEF" OUTLET

Dear Bill.

Your idea of a monthly column on something like "Letters to the Editor" is an excellent one. Our human make-up is such that an outlet for a "beef" here and there not only unloads our mind for more productive thinking but also serves as a consolation to the reader that he has com-

Bill. I have noticed a definite tendency in the last few months by some of their business investments as expenses and in some cases the best investment of them all is getting the axe first. I have reference to automobile association dues, whether they be

A column of informal comments about the automotive trade and its problems.

ROUND-THE-CLOCK THE-YEAR 'ROUND with PYROIL with PYROIL

Every time you add Pyroil to your ear, you're improving lubrication. No matter what kind of oil you use. Pyroil gives oil the added property of clinging to cylinder walls and piston rings. protecting these vital parts against exposure to condensation, and metal-tometal friction. Pyroil prevents clogging due to gummy deposits. Pyroil prevents damaging dry starts - because that constant clinging film of oil is a roundthe-clock protector whether your car is rolling along or parked for the night.

Ask your gas station attendant to "add Pyroil" - and add miles of carefree driving.

PYROIL FOR AIRCRAFT ENGINES

Use Aircraft Pyroil B for lubricating oil, Aircraft Pyroil A for gasoline.

GIVEN! An attractive Pyroil metal savings bank—takes cone up to 50c pieces. MOTORISTS, it's yours for the asking—sent postage paid



PYROIL COMPANY

471 Main Street

La Crosse, Wiscons n

Canadian Distributors Central Purchasing Agencies, Ltd Toronto, Ontario

Protect your car | Profit protection

A preferred product that protects cars from winter's cold and summer's heat a sure-fire 12 months of the year profit maker - that product is PYROIL! Dealers can make big extra profits every week of the year by simply asking their customers, "Should I add Pyroily".

PYROIL A DEMAND PRODUCT

has been nationally advertised in leading publications continuously since 1932 - plus radio advertising in major

Let a factory representative tell you the complete merchandising and promotion program.



Southern Representatives

Southeast The MacPhail Company 322 E. 5th Street Charlotte, North Carolina

Southwest Hirsig-Frazier Company 807 Cotton Exchange Building Dallas, Texas

local, state or national. At no time in the history of the retail automobile industry has cooperative moral and financial support been so necessary as now or in the months and years ahead. Memories are sometimes short and dealers should not forget that the more competitive the retail automobile business becomes, the more we have need of a common meeting ground to adjust problems.

I would like to encourage all your readers to write a letter to the editor any time he has a problem on his mind. Not only will be most likely find the solution but other readers will benefit by the problem itself.

Brack Wilson. Pres. and manager. B. and R. Wilson, Inc., Smithfield, N. C. President, North Carolina Automobile Dealers Associa-

WHAT A CHANGE!

Thought you would be interested our old and new used-car lot. This modernization program is in line with the national program of Chevrolet Motor Division and our new lot, which occupies the same location as the old one, is complete in every respect-concrete surface, closing office in rear and is lighted by 25,000 watts.

We feel it is the most outstanding used car lot in the Southeast and thought you would be interested in

P. L. Abernethy, City Chevrolet Co., Charlotte, N. C. That's a real metamorphosis, Paul! See page 70

JAM-UP WRITING

The recent article by Technical Editor Lowery on the Vacuum Cange



"Husky is as Husky does" - and HOUDAILLE* HUSKYS

give <u>HUSKY</u> service plus HUSKY profits!

• The Houdaille Husky lives up to its name. It has extra strength and extra stamina with larger and stronger working parts. That means a balanced shock absorber with low-pressure operation and extra thousands of miles of service.

Because Huskys offer longer life and added value for such a small premium in price, they are fast sellers to new car owners and old. For use on commercial and service fleets they have no equal.

Spring, the big season for shocks, is just ahead. Prepare now for bigger sales than ever before. Stock Houdailles and push the Husky. For the complete story, call your nearest distributor or write to the factory.

THIS DISPLAY STAND

It puts your Houdaille stock out front and under the nose of every customer. It's an attractive, permanent sales builder—one of the many profit ands which Houdaille offers you.

HOUDAILLE-HERSHEY CORPORATION

BUFFALO 11, NEW YORK

America's Pioneer Builder of Hydraulic Shock Absorbers

Say Hoody &

subject. It was clearly written in such a manner that any mechanic could follow it step by step. The article in a preceding issue on Voltage Regulators was also an exceptionally fue one.

A. R. Sellers, Sales Manager, Anto Electric of Georgia, Inc., Atlanta, Ga.

MECHANICS GET THE DOPE

Centlemen

Here's a Time Saver idea of mine

I am employed by Farmers Implement Co. at Brownfield, Texas. I sure gets lots of useful information from SOUTHERN AUTOMOTIVE JOURNAL, as other mechanics do.

Ferrell A. Echols, Box 1012, Brownfield, Texas

ATTRACTIVE DATES

Who "puts out" the most attractive calendars in the South? The mail brings many calendars around the turn of year but have you seen the calendars sent out by Hamrick Motor Co. of Greenwood, Miss? L. Flowers Hamrick, the popular expresident of the Mississippi Automobile Dealers Association, evidently likes the great outdoors, if you're to judge by the attractive scene on his company's calendars.

HE TRIES TWO

Claude Powell, Jr., the aggressive mechanic who started from hardly a shoestring a generation ago to build up a big repair shop in Columbia, S. C., has distributed two completely-different calendars. One of Powell's Garage & Wrecker Service calendars carries an attractive Indian Summer scene, while the other complastics safety—something in which Powell's fleet of trim wreckers is interested.

WATCHES TIME SAVERS

Gentlemen

I am a constant reader of the Southern Automotive Journal. From time to time I have used several of the Time Saver ideas which you feature in your magazine.

At this writing, however, I would like the opportunity to collect one of those \$5 awards which you give for suggestions published in your montains.

Louis Miller, c o Roger Sullivan, Inc. (Chrysler Plymouth), 1410-16 Bloomingdale Rd.

Baltimore, Md.
(Time Saver submitted to technical staff.)

TEN COPIES COMING UP

Gentlemen:

We would appreciate very much your sending us ten copies of the December, 1949, issue of Southern Automotiv) for any and billing us for time.

> W. D. Fortney, Sales Manager, McKay Chevrolet Co., Columbia, Mo.

GETS BENEFITS TOO

Dear Sirs

I have a few shop Lime Savers I would like for you to consider for your automotive purnal that might be helpful to some of the boys in the field. I get a great enjoyment out of reading them myself, some of



A MOTOR MOUNT CHECK-UP with every CLUTCH JOB

When a clutch repair job comes into the shopmost successful auto mechanics have a foolproof check-up system. Frequently, the clutch checks out OK So his nest logical step is to check the motor mounts. He knows that soft, deteriorated or broken mountings prevent proper clutch linkage causing chatter. Chances are 10 to 1 that a new set of Armor-Flex Motor Mounts will solve the problem. And chances are this "standard-practice" gained a friend because the mechanics did the job quickly efficiently.



Play it safe

Install armor Flex live rubber mountings for your customers Individually packaged. Original part number appears on overs how.



DOUR MANUFACTURING CORP.

PACKAGED AUTOMOTIVE REPLACEMENT PARTS



PRECISION FIT Speeds up your PROFITS!

Perfection Replacement Parts are precision made and carefully burnished to "no tolerance" exactness to fit perfectly at every replacement job. They mesh perfectly . . . even with unworn parts that need not be replaced. You will find that you can turn out better jobs faster at greater profit with "pre-fitted" Perfection Parts.

PERFECTION RING GEARS and PINIONS are perfectly mated, lapped and packed in sets for absolute accuracy and efficiency in service. They provide long-lasting, smooth performance.

PERFECTION TRANSMISSION GEARS undergo continuous, close tolerance testing throughout every step of manufacture to assure the perfect fit and function that helps build your service reputation. They offer you greater profit and your customers greater service.

There is a Perfection wholesaler near you who carries a representative stock of these quality parts. He is prepared to render prompt, efficient, friendly service. If you do not know his name,



PERFECTION PRODUCTS INCLUDE:

Silent Timing Gears • Metal Timing Gears • Silent Timing Chains • Clutch Plates • Transmission Gears and Parts • Differential Bing Gears and Parts • Differential Bing Gears and Ports • Flynions • Differential Coars and Parts • Flynions • Clutch Caver Wheal Gears • Cylinder Heads • Clutch Caver Assembly Parts • Pressure Plates • Clutch Facks and Parts • Clutch Rebuilders

PERFECTION GEAR COMPANY, HARVEY, ILL.

SOUTHERN AUTOMOTIVE JOURNAL for FEBRUARY, 1950

which I have benefited from.
Ralph McKenzie,
c/o Downtown Motors
Co.,
405 Fast Washington

405 East Washington, Pittsburg, Kan.

"HELPFUL THINGS"

Thank you for your Time Savers department. I find lots of helpful things in it. I'd like to pass on some of my short cuts and ideas on doing a better job quickly. I hope I have

made them understandable.

Bill Marsh, Ace Brake Service,

San Antonio, Texas.

Hope you get some of the \$5 bills that go out every month to a lot of different guys all over the South!

WANTED: A DIAGRAM

Gentlemen

In a recent issue of Southern Automotive Journal there was a wiring diagram shown for the 1949 Studebaker Champion. We are in need of a copy of this diagram but cannot locate the issue which contains it. It would be greatly appreciated if you would send to my attention one or two copies of this diagram.

Frank M. Connor, Catalog Dept. C. E. Nichoff & Co. Chicago, Ill.

RECONDITIONING GOES

Centlemen

On page 162-163 of your November issue you have an article headed "Prompt Reconditioning Is Key to Used-Car Success," At your earliest convenience will you kindly send us 25 copies of this article.

D. E. Holmes, Fraser Products Co., Alpena, Mich.

Ford Shows Human Side Of Modern Automobile

"The Human Bridge", a 16-mm sound film on the birth of an automobile, has been produced by the Ford Motor Co-to show how vast resources of mind and muscle are fused in a dramatic production enterprise.

The film is in full color and runs 28 minutes. Schools, clubs, churches and other organized groups may obtain the motion picture without charge, the only requirement being that the borrower pay postage for shipping.

Groups may obtain the film by contacting their nearest Ford or Lincoln-Mercury dealer or by addressing the Ford Film Bureau, Ford Motor Co., 5000 Schaefer Road, Dearborn, Mich.

One of the special models put together by General Motors for its automobile show in the Waldorf-Astoria last month carried \$3,500 in leopard skin. Cadillac men, who presented the \$35,000 "El Rancho" car of last year, with Mexican hand-tooled silver fittings and natural cowhide trim, were not surprised that this one got even more attention. It's named "The Debutante."

Fisher Body in 1949 built more than 2,000,000 automobile bodies.

Tells How!

With this 36-page reference guide you can modernize your shop for bigger profits on such jobs as:

- Reconditioning Radiators
- Parts Cleaning
- Steam-Cleaning
- . Body-Washing
- · De-scaling Blocks
- General cleaning of floors, grease pits, pumps, rest rooms

PACKED WITH PICTURES. The booklet is packed with pictures showing shop men in action steam cleaning; reconditioning clogged radiators; descaling blocks, stripping paint, etc. Booklet contains diagrams showing how to construct and install simple gas and steam heated tanks for mass production cleaning of small parts.

FREE This Guide is yours for the asking. Drop a line to adress below for your copy. And remember! When you buy Oakite cleaners you get the personal services of
your local Oakite Technical Service
Representative to make sure you get
the most for your cleaning dollar.



YOU will find this 36-page Oakite Automotive Cleaning Manual a real belp in streamlining all your daily clean-up work. Send for your copy today. Free!

OAKITE PRODUCTS, INC., 52F Thames St., NEW YORK S, N. Y.
Technical Service Representatives in Principal Cities of U. S. & Canada

OAKITE

SPECIALIZED INDUSTRIAL CLEANING MATERIALS - METHODS - SERVICE



IT TAKES A HOT-FOOT WITH A GRIN!

One thing is certain: the Blue Streak contact in this breaker plate can take more punishment with less squawking than any other contact in the business. That's why it outlasts them all.

It has a contact area that is 55.4% larger than ordinary points—a special Blue Streak feature to reduce the heat of the arc-at-break. Instead of ordinary tungsten, the Blue Streak point is made of high amperage tungsten. Not only can it carry more current, longer-it does so with hardly any burning or pitting.

The full length copper shunt cuts down resistance allows the coil to deliver full power. The springs . . . the body — every part is precisely formed and, every pace is individually inspected to assure perfect fit.

Yes, you'll pay a few pennies more for this Blue Streak point but its quality assures longer life—it build, and insures your reputation.

better your business...buy Blue Streak

STANDARD MOTOR PRODUCTS, INC., LONG ISLAND CITY I NEW YORK

Dear Bill.

We've about got the winter worn out, so we'll start planning on what we'll hit the customer with for the coming of spring. By sticking to our seasonal service programs down through the years, we have our old customers pretty well trained. They dutifully show up for the special, and know it keeps them out of trouble for the duration of the season. They used to ask for it during the war, when we didn't advertise it as we had before.

There are so many new automatic



Got A Minute, Mac . . . a minute to talk about fan belts-Thermoid fan belts? With Thermoid, you don't need to tie up money in a lot of slow-moving numbers. Thermoid enables you to service all makes of cars with less inventory-gives you more money to invest in other fast-moving items. Thermoid makes one line of fan belts-the top quality line for cars, trucks and tractors-guaranteed to give long, faithful service. Why not get in touch with your Thermoid distributor, Mac, and learn how Thermoid can help you put your fan belt business on a more efficient and profitable basis. Or write: Thermoid Company . Trenton, New Jersey

transmissions on the market now, we've had to include the service of these units in the spring servicing operations. It's a good idea to change the fluid in them at this time of year, even if they haven't covered the full allowable mileage since the last change.

It simplified our problems a lot when the petroleum companies and the car manufacturers got together and approved a single fluid that can be used in the Ultramatic, Hydra-Matic and Dynaflow drives. We take care of all makes of cars, and it made it unhandy when one of the drives needed fluid and we were unable to get it.

It's reasonable for the factories to try to control the service on a new unit for a given time in order better to find the bugs, but when it goes on too long, the customer and the service men become impatient, and they go ahead and do things that are harmful, which they wouldn't do if properly instructed. I don't believe anyone is aching to tear into these automatic drives without training and special tools and equipment, but it's natural that they feel they should know how to add or change the fluid in them.

We know of several cases where customers far from their agencies had their fluid changed in the drive, and the boxs hadn't been briefed on the job, so flushed the unit with engine oil. The engine oil couldn't drain out completely, so was left in where it could sludge and varnish up the parts like nobody's business.

Now they are able to buy the correct fluid for the job for either change or adding purposes, and have the dope on how to do the job.

They tell me some of the service men have been confused by the location of the transmission dipstick on the late series Buicks. It is so close to the engine dipstick they whip out the wrong one when checking the engine oil. On the '48's and early '49's the fluid level on Dynaflow was

Brake Linings • Clutch Facings • Fan Belts • Radiator Hose • Hydraulic Brake Parts and Fluid • Car Mats • Thermoid Precision Process Equipment.



THE SMOOTH. NEW AERO - ALUMINUM

Lovely Judy Tyler, winner of Stardust National Beauty

in beautiful Pearl Gray HAMMERLOID ENAMEL FINISH

Count on Casco to spark up your visor sales with a gargeous new baked enamel Pearl Gray Hammerloid Finish that sells on sight. (Can be re-painted to color-match any car if desired.) No other visor has so much to offer! You can count on Casco for tops in value ... light down the line!

PAIR TRADED

LOWER INVENTORY! FASTER TURNOVER! ONE MODEL FITS 90%

OF ALL CARS!

THE FAMOUS SALES-TESTED SILVER-TONE



CASCO-VISOR

IN RIGIDIZED EMBOSSED ALUMINUM!

THE ANODIZED finish on this famous EMBOSSED ALUMINUM CASCO beau scratch-proof, and correction proof. Perfect for quick sales to car awners vise they can drive away with PLUS these who demand a color-match. You satisfy both types with NEW this onel Every Car Dealer, Auto Supply Store, Garage low Price—and Service Station can easily headle the Casco Viser low Price—

FOR NEW AND UNUSUAL CASC

CASCO PRODUCTS CORPORATION BRIDGEPORT 2, CONN.

Southeast Repr: LAWRENCE M. HIRSIG & CO. 201 Hildebrandt Bldg., Jacksonville 2, Fla.

Southwest Repr: HIRSIG-FRAZIER COMPANY Box 1140, 807 Cotton Exchange Bldg., Dallas, Texas checked under the front floor mat like on the Hydra-Matic, but now it is under the hood, right-hand side.

You catch the dipstick on the Packard Ultramatic under the car and fluid can be added there at the same opening. If it's a change, however, there is another opening in the transmission reached through an opening in the front floor pan. That is easier to reach for pouring larger quantities.

We'll probably be learning about some different transmission as Stude and Chevy and some of the others move their jobs into the market. When they add anything to the new cars, we play ball with them by adding its service to our spring inspection job. Nothing like being up-to-date and on the ball, now is there?

Yrs, Ed.

Servicing Ford Regulator (Continued from page 90)

the ammeter used in previous tests is connected to the battery terminal of the regulator while the positive lead is attached to the negative lead of an

And Automatic Pressure Control

other test instrument, the positive lead of this other instrument being connected to the ground terminal of the battery. Thus we see that the generator current, after going through the regulator, passes through both ammeters to ground. It also passes through a carbon pile resistance in the heavy test unit which is the only reason for all this extra hook-up. By means of this resistance we are able to "load" the generator and check and adjust the regulator.

With our connections thus made, we increase the speed of the engine to approximately 1,500 R.P.M. The knob on the heavy test unit is turned in a clockwise direction until the voltage drops approximately 0,5 volt. The ammeter reading should increase, but not beyond the specified limits (Ford and Mercury, 34 to 38 amperes; Lincoln and some Ford trucks, 38 to 42 amperes). Bending the adjusting arm of the current limiter up will increase the amount of current allowed to pass; bending down will decrease it.

In connection with this unit of the regulator it is well to note that while the Ford and Mercury are the same, the 1949 Lincolns and some of the 1948's carry a larger generator capable of a higher maximum charging rate. These large generators are also found on some Ford trucks. They are readily recognized by their size, being more than an inch longer than the other type.

The wise mechanic will now make sure the cover is firmly in place and run quickly through these checks again just to make sure he has not slipped somewhere. Everything being okay, it can be safely assumed that the regulator will give another long period of service.

All this has taken quite a bit of time and paper to tell about, but in actual practice it's not difficult. The checks can be made in a very short time and seldom is it necessary to adjust all three units of a regulator. As was stated, we are servicing, not rebuilding them. Often a few minutes' time can be profitable as well as gaining a satisfied customer for your own shop.

Rock Hill Dealers Form Association

A tromobile dealers of Rock Hill, S. C., have formed an association with J. T. Neely, Jr., of Neely Motor Co., as president. T. W. Huey of Huey Chevrolet Co. is vice-president and Jack O'Neal of Rock Hill Motor Sales Co. is secretary-treasurer.

Directors include: Harvey Manors, Frank Sanders and E. B. Cox.



Pictured is America's most efficient steam cleaning machine. It's powerful. It's lightning fast. It is precision-built to give you years of top performance at low operating cost—with an absolute minimum of maintenance.

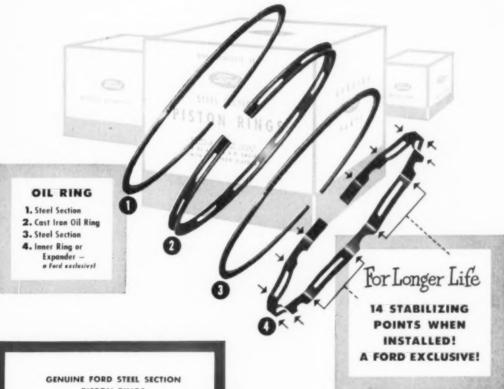
Big secret of Spontane's superiority is its exclusive "Hydro-Therm Flow" circulation system. Solution tank, all water lines and solution lines are kept hot. Troublesome crystallization of the compound solution at low temperatures has been entirely eliminated.

Pre-mixing of compound not required. Simply pour powder into Spontane's Pre-Heated Solution Tank with the Built-in Agitator and turn a valve. Easily removable panels and top hood provide instant accessibility. All operating controls on outside panels. Spontane's Triple-Cylinder Plunger Type Pump, more efficient "Aeroator" Jet Burner—plus scores of other advanced developments brings a new era of efficiency for every steam cleaning application. Consult your jobber for complete details, or write for free descriptive folder.

SPONTANE MFG. COMPANY

Grape & Pear Streets, S. E., Atlanta, Georgia

Bring in MORE Business with Genuine Ford Piston Rig



PISTON RINGS

Exclusive . . . Patented . . . Made Right . . . Priced Right

Only cast iron ring section contacts cylinder wall under pressure during break-in period, eliminates scoring danger. After breaking in, steel ring sections absorb wearing forces. The inner ring has fourteen contact points which stabilize and control the ring and piston. Result-Genuine Ford Steel Section Piston Rings make for reduced piston vibration . . . longer piston and ring life . . . better oil control . . . more power and economy.

Genuine Ford Parts.. Right for FORDS! Want more Ford service business? Always use Genuine Ford Parts—the ones Ford owners like best! Made right to fit right, last longer. Stock Genuine Ford Parts for more business—call your Ford Dealer or Ford Parts Distributor for quick delivery.



Independent Garages . . .

This sign of good business tells the town you stock Genuine Ford Parts - can bring in more business for you. Get in touch with your Ford Dealer or Ford Parts Dis-

tributor today . . . learn how you can qualify to use this business-building sign that's known and trusted from coast to coast

FORD Division of FORD MOTOR COMPANY

Here's How to Test Fuel Gauge on Plymouth Cars

Personnel Division of Chrysler Corp. issued the following bulletin recently on how the electromagnetic fuel gange works and how to test it:

The electromagnetic type fuel gauge on the current model P-17 and P-18 Plymouth cars consists of a dash unit and a tank unit.

REDUCE YOUR

NUT-RUNNING TIME as much as 90% with Ingersoll-Rand

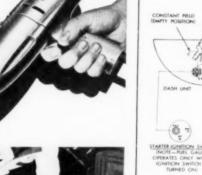
IMPACTOOLS

The tank unit consists of a resistance with a sliding contact which is actuated by a float. This resistance is connected to the dash unit and varies the current in one of the dashunit windings to give the meter indications. The tank unit case must be grounded to complete the circuit.

The dash unit has two magnetic

circuits, each of which has windings. One of these windings is connected to the starter-ignition switch and to the ground, and creates a steady magnetic pull towards "EMPTY" when the ignition switch is turned on. The other winding is also connected to the ignition switch, but is grounded through the tank unit. When the float in the tank unit moves towards the "FUIL" position, a variable resistance is created, establishing a magnetic field which gradually overcomes the constant field and forces the needle to move towards the "FUIL" mark.

With this type gauge, fuel level vanations caused by going around corners or rough roads, cause the needle to instantly fluctuate. A radio static suppressor is not needed in this



Here's Proof of AMAZING Impactool Savings

Cylinder Head Repair Removing cylinder head cap screws took only 3 minutes with the electric Impactool. The job required 27 minutes with hand wrenches.

Spring Service Job

Mechanics report 2 hours saved on servicing passenger car springs. Installing spring clip nuts took 16 minutes with hand wrenches—33 seconds with Impactool.

Oil Pan Removal

Impactool saves as much as 90% of the time on oil pan removal.

Wheel Changing

A service operator reports removing and replacing 4 passenger car wheels took 35 minutes using hand wrenches. With the Impactool he now does it in 8 minutes, without any of the former operator fatigue

Stud Tapping

Hand tapping for studs formerly took 9 minutes of tough, fatiguing work. When the Impactool is used the job is done effortlessly in 2½ minutes.

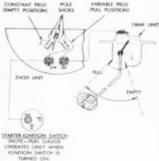
Size 4U - 3 8" bolt dia. Size 8U - 5 8" bolt dia.

The savings obtained by using the Impactool solely as a nut-runner more than justify its purchase. He sure your shop is equipped with this modern labor saving, multi-purpose tool encourage your mechanics to own their own tools by offering them a weekly repayment plan.

Ask your jobber for a free demonstration Ingersoll-Rand

ORIGINATOR OF IMPACTOOLS—air and electric

446-18



gauge, since contact points have been eliminated.

Test wire from starter-ignition switch to dash unit.—The ignition switch must be turned on as these various tests might indicate.

Connect a test-lamp to the "SW" terminal on the dash unit and the other end to ground. If the lamp lights when the ignition switch is turned on, this circuit is good.

Test dash and tank units for ground—Both units must have a good ground to operate properly. Use a jumper wire to temporarily ground each unit at the case. If the gauge reading changes when the temporary ground is made, the case of the unit under test should be provided with a proper ground. The mounting screws of the dash unit should be cleaned and tightened. Clean the contacting surfaces of the tank unit and make sure the locking ring is tight.

Test the wire between the dash unit and the tank unit—Disconnect the wire at both ends. Connect a test lamp between the "AM" terminal of the starter ignition switch and one end of the wire. If the lamp lights, the wire is grounded and should be

repaired.

If the lamp does not light, ground the opposite end of the wire. The lamp should now light, if it does not, the wire is broken and should be replaced.

Test the dash and tank units—If previous tests indicate that the dash unit is receiving current when the starter-ignition switch is furned on, that both the dash and tank units are properly grounded, and that the wire between these units is good, then test the dash and tank units as follows.

Disconnect the wire to the "GA" terminal. Connect a spare-tank unit known to be in good condition to the "GA" terminal and ground the case of the spare tank unit with a jumper wire. Move the float of the spare tank unit up and down, and if the dash unit registers correctly, the tank unit in the car is faulty and should be replaced.

If the dash unit does not register when the float arm of the spare tank unit is moved up and down—the dash unit is faulty and should be replaced.

How to Test Tank Unit When Removed

 Connect a jumper from a 6volt battery to a Mazda "51" bulb.

Connect the ground side of the bulb to another jumper leading to the tank-unit terminal.

Connect another jumper from the tank-unit case to the other side of the battery.

 With the float in the "FULL" position, the bulb should burn at almost full brilliance.

5.—When the float is lowered, the light should steadily decrease in brightness until it will just barely glow in a reasonably dark room.

This test will show if the tank unit is operating properly, but will not indicate exact calibration. If the float wire or the float wire "stops" are improperly bent, they will affect calibration. If the contact wiper does not contact the wire cone resistor, the gauge will not function. In most cases of tank unit failure, the unit should be replaced. When installing the gauge in the tank, be sure not to bend the float arm, be sure the gasket is scaled properly, and check for possible binding of the assembly.

Fewer Accounts Due

(Continued from page 83)

done, armed with the information the account had checks out mark ed "insufficient funds" and seemed to owe almost everybody. The customer told Kruse that he wanted to pay the bill but just didn't have the



This Series F-8 tractor with tandem rear axle semi-trailer is one of 175 models available in the Ford truck line announced last month.

money. Kruse agreed that it was a bad situation and suggested that the account give them enough merchan dise off the shelves to take care of their account. The customer was glad to do this and the records show the merchandise was sold for slightly more than the amount due.

"No collection agency nor any system of form letters can do as much toward collecting our bills as we can, Kruse said. "When an account be comes past due we can immediately visualize the business, the prospects, the owner's personality and his habits because we are better acquainted with him than any collection agency could possibly be and in addition we know more about this kind of business. Almost any person will cooperate if properly approached and under such conditions a way to surmount the difficulty can always be found. When that occurs you collect what is owed and you keep your customer."

Studebaker Sends Maxwell To Memphis Region

James H. Maxwell has been appointed field service representative for The Studebaker Corp. at the Memplis, Tenn. regional office.

D. Mason has been transferred from the Cincinnati region to St. Louis as field service representative. He replaces R. R. Downs, who has moved to Cleveland. N. A. Hughes, formerly in Chicago, is now representative at Dallas.

Columbians Name Officers

Robert T. Clarke, Jr., of Central Chevrolet Co. was recently elected president of the Columbia, S. C., Automotive Trades Association. H. L. Burton of Palmetto Farm Supply Co. is vice-president and T. P. Knox of Commercial Credit Corp. is secretary of the automotive group.

Ford '50 Trucks Offer New Transmission

A FOUR-SPIED synchrosilent fransmission that eliminates double clutching is standard equipment on the 254-cubic-inch, 110-horsepower engine for Ford Motor Co.'s 1950 models. An extra-heavy-duty clutch is included.

The 1950 line offers more than 175 models, powered by four engines and available in a wide range of wheel-

bases

The engines include: 226-cubic-meh, 95-horsepower, saveylinder engine: 259-cubic-inch, 100-horsepower V.S. 337-cubic-inch, 145-horsepower V.S. and the 254-cubic-inch saveylinder.

Rear brakes on the F-7 models are 15 inches by five mehes. They have aluminum shoes, a double cylinder and self-energizing hydraulic actuation. Full air brakes of the two-shoe type are available for the F-8 Series. Rear brake size is 16½ mehes by 5½;

A new heavy-duty three-speed synchro-silent transmission is optional for

series F-1 through F-3.

The F-8 now has a single speed rear axle as standard equipment with a two-speed axle optional. A hypoid single-speed rear axle is offered for F-6 Series and all models have the gyro-grip clutch, roll-action steering and quadrax rear axles.

The F 7 and F-8 Series have a double channel frame for adequate sup-

port of heavy loads.

Gross vehicle weight ratings for the 1950 line range from 4,700 pounds in the F-1 to 22,000 pounds in the F-8 straight truck and 39,000 pounds when used with tractor and trailer.

Approximately 5,500 automotive patents will be issued in the United States this year, a sixth of all patents granted, a recent AMA bulletin said.

Maximum Car Size Reached. **GMC Styling Man Predicts**

M AXIMUM width and length have the Styling Section of General Mobeen reached in most of America's automobiles, especially the larger and higher-priced cars, and the tendency is to reduce length at present by better space utilization, without compacting the interior.

That is the opinion given by Harley I. Earl, vice-president in charge of

tors, in New York at the opening of the GM "Mid-Century Motorama," presented in the Waldorf-Astoria January 19 through 27.

Height of cars also has reached a limit, from the point of practical distances as to ground clearance and comfortable headroom, said Earl.

Continuing progress is being made in automobile design, however, he pointed out, citing particularly better visibility, better treatment of exterior and interior trim and advances in color and pigment uses.

"In general," said Earl, "we are successfully approaching a long-time goal of climinating hazardous blind spots. Very favorable comment has been received concerning visibility on

"The advances in color treatment have been marked in recent years. with development of many new paint pigments for better durability and greater luster retentions so far as car

exteriors are concerned. Gains of the last few years provide a greater range of cloth patterns and consequently a resultant greater range in appearance

possibilities."

our present cars.

Automotive designers are most conscious of the wants of women in present-day cars, Earl stated. He has a number of women designers and styling advisers in fabric and color work in his section at General Motors in Detroit, with the aim of attaining a satisfactory balance in style based on the desires of both men and women.

Earl regards car styling in automobiles as becoming more important year by year as a sales factor.

It is a matter of record that poor styling or improperly-timed styling has proven financially disastrous to some automobile manufacturers," he said. "Appearance plays more of a part in determining car sales than most people realize.

There has been some criticism in the past of an excessive use of chrome on passenger cars. On this he said:

"We have determined that the proper distribution and the proper design of the chrome components are the important factors-not the quantity used. Chrome used properly also is an important factor in used-car

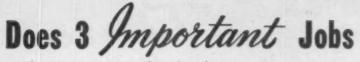
Dynaflow Production Rises

Buick Motor Division produced four times as many Dynaflow transmissions in 1949 as in 1948, Ivan L. Wiles, general manager, reported last month. More than 70 per cent of all Buicks built in 1949 were equipped with the transmission.

Smith Heads Hellwig Sales

Paul H. Smith is now sales manager for Hellwig Products Co., Inc., Glendale, Calif. He has been conneeted with the spring stabilizer and overload spring firm almost since its inception four years ago.





- 1. Stops CLICKING Noise
- 2. Lubricates VALVE Mechanism
- 3. Protects Against Condensation

VAL-VIN-HED Silencer

LIST PRICE CHEV. \$2.75 BUICK \$3.25

AND BUICK MOTORS

QUIET AS A KITTEN!

EASY TO SELL...
Profitable to Handle

The new VAL-VIN-HED Silencer performs 3 important functions which makes it a MUST for anyone driving a Valve-in-Head Motor. FIRST, it STOPS valve clicking noise, SEC-OND, it provides constant overhead lubrication for the entire valve mechanism. THIRD, it provides protection against moisture condensation in valve cover. The gentle working of the rocker arms against the oil soaked filters of the Silencer provides an abundance of lubrication which reduces friction and wear thereby assuring a quieter, more efficient operation. Shops which are talking these features are installing dozens of VAL-VIN-HED Silencers. Order from your jobber TODAY. If he cannot supply you, write factory direct.

JOE L. ESTES CO., Winder, Ga.

STOPS CLICKING NOISE

VALOVINO MECHANISM

LUBRICATES VALVE MECHANISM

"Keeps Your Motor Quiet as a Kitten!"

GOT A GOOD

IDEA?

will be paid for every time - saver or shop short - cut accepted for publication in this section. A photo or rough sketch will make your idea more valuable. Only original items, not previously published, offered for our exclusive use, can be considered.

Avoiding Radiator Leaks On Kaiser-Frazer Cars

R ADDATOR leaks at the bottom tank on Kaisers and Frazers are frequently caused by the lower hose and metal pipe being too rigid to allow the engine to move without breaking the bottom neck loose at the front



Time SAVERS

side of the bottom tank. At least that is where the radiator usually springs a leak. My remedy to overcome this is shown in the accompanying drawing—J. S. Tyson, service manager, Stockton-Bergstrom Motor Co. (Kaiser-Frazer), El Campo, Texas.

Installing Kingpin On School Bus

O's some late model Dodge schoolbus chassis, mechanics may run into the same trouble I did when installing kingpin and bushings.

Remove both lock pins and also the steering arm before trying to knock out the kingpin because the steering arm also locks the pin.—Buster L. Robertson, Cragford, Alabama.

Correcting Loose Clutch And Brake Pedals

The other day a customer brought in a 1948 Ford and demanded that something be done about the clutch and brake pedals, which were loose and scraping the floorboards.

When the assembly was removed for rebushing, we found that the pedal shaft was so badly worn that it would have to be replaced. No nearby shops had the shaft, which is pressed into a casting, as a separate item.

We "miked" the worn shaft and then "miked" some old wormshafts that had been removed from steering assemblies. One recently removed from a 1934 Chevrolet was the exact size. We sawed out a section 1/4"

NEW SERVICE SPEED-UPS & CHAMP-ITEMS



New parts that guarantee satisfaction. The kind of service that brings in more business and profits!

No. 462 STEERING LINKAGE KNUCKLE SILENCING CUSHION for all cars with conventional ball studs. Stops steering linkage noise and eliminates play at ball joint for more positive steering. List \$4.75 each.

No. 465 LOWER GEAR SHIFT SHAFT TAKE-UP BUSHING for 1940-48 Chevrolet cars and trucks. Eliminates rattle of shaft and provides for an easier and more positive shifting. List \$.75 each.

No. 468 BATTERY SUPPORT TRAY for Chevrolet 1940-48. Sturdy heavy gauge steel construction. Easily installed — no holes to drill, List \$1.50 each.

No. 404-K UNIVERSAL SPEEDOMETER CABLE REPAIR KIT for all cars and trucks. Repairs speedometer cable for any car or truck in 10 minutes! Each kit contains necessary tools, cable and collars to repair about 25 units, Approx. list \$1.50 per cable. Refill kit No. 404-RK available.

CHAMP-ITEM

YOUR

CHAMP-ITEMS, INC.

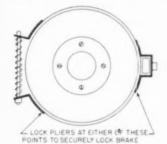
longer than the old shaft and drilled a cotter keyway 3/32" in diameter 3/16" from each end. After finishthe ends on a grinder, we pressed our home-made shaft into the casting.

In reassembling, we used the original washers and substituted cotter keys for the lock-ring retainers and thereby eliminated a musance for repairmen in the future.

We never throw away old shafts but keep them and tag them with their exact diameter. — Melvin J. Timm, Route One, Berryville, Ark.

Removing Universal Joint On Chrysler Products

When removing or installing universal joint bolts on Chrysler products, use your locking pliers to lock hand-brake drum. By locking the pliers on the edge of the drum



at the anchor or reinforced end, as shown in illustration, the brake will be locked effectively.

This saves crawling in and out under the car to set the hand brake.— J. W. Norman, Gurley Brothers, Cumberland, Maryland.

Stopping Fuel Leaks In Carburetors

E seems almost impossible to stop all the little seeps at the plugs in bottom of the carburctor bowl. Expansion and contraction have a tendency to keep them leaking a small amount.

After overhauling a carburetor, I have found that a small amount of lacquer-type fingermal polish forms a perfect scal around the plug if it is applied after the plug is in and tightened.—Ralph McKenzie, Downtown Motors Company, Pittsburg, Kansas.

When Making Substitute For Carburetor Washer

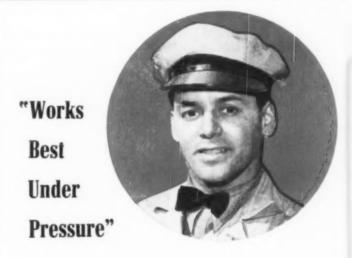
O 1949 Ford trucks with 145horsepower engine, as well as the Lincolns and Mercurys, the retaining washer for the pump rod felt is very easily misplaced. Sometimes another mechanic has assembled the carburefor without it. This washer is extremely important since without it the felt cannot be held in place to form a dust scal against outer air.

When the proper part cannot be obtained, a good substitute is the thin brass washer used under the cotter pin on very old Ford distributors. This is the model where both point arms are riveted to the same spring—Lynn F. Snoddy, 1622 Vivian Street, Shreveport, Louisiana.

Solving a Motor-Oil Problem on Fords

As rins day of detergent and somewhat smelly motor oils, pre-1949 Fords present a winter driving problem. Here is a solution:

Remove the intake manifold and at a point approximately 2" in front of and 2" to the left of the forward point of the oil filler neck drill out and tap a hole to take a piece of 3/8" iron gas pipe. Drill through both layers of east so that the pipe will open into the space provided for the



Thermoid Hydraulic Brake Fluid is compounded from the highest quality ingredients to meet or exceed SAE specifications. Thermoid Hydraulic Brake Fluid is fortified with corrosion inhibitors—will not harm rubber or metal parts—will not swell rubber cups—operates satisfactorily at temperatures from 60° below zero to 230° F., and mixes well with all recognized quality fluids, including those used by car manufacturers. Specify Thermoid Hydraulic

car manufacturers. Specify Thermoid Hydraulic Brake Fluid. It works best under pressure. Thermoid also makes a complete line of Hydraulic Brake Parts — made according to approved engineering specifications and fully tested.



Brake Linings • Fan Belts • Radiator Hose • Hydraulic Brake Parts and Fluid • Car Mats • Clutch Facings • Thermoid Precision Process Equipment valve assemblies. This compartment is opened into the crankcase and fumes rise into it and seek their exit through the oil filler cap.

Remove the oil-bath air cleaner and weld a piece of the same size gas pipe into a hole in the body side. Extend this pipe into the oil sump compartment of the filler but at least 2" above the oil level. Then connect the two pipes after reasembling the manifold and air cleaner with a piece of neoprene heater hose.

The air will draw the fumes into it before they reach the oil filler cap and the fumes will be burned by the air instead of being inhaled by the driver. — Melvin J. Timm, Route One, Berryville, Arkansas.

Making Tool to Load Pistons and Cups

Here is the way I make a tool for loading the pistons and cups and sliding them into the wheel cylinders on all late-model Chrysler moducts:

Take a Plymouth sector shaft bushing No. 866921 and sand the in-

side opening a little with fine sandpaper.—Morton Shor, Penn Brothers, Inc. (DeSoto-Plymouth), Baltimore, Maryland.

When Reconditioning Master Cylinders

Here is the way I save time on brake jobs: When reconditioning or installing master cylinders, I fill the master cylinders with brake fluid before installing and bleed it out. Three or four strokes is sufficient.

Then I screw a plug in the outlet to keep fluid in and dirt out while installing. Refill the master cylinder after bleeding. When installed, loosen master cylinder connection one-half turn. Reach up, catch brake pedal and pull down until fluid runs in a steady stream.

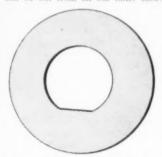
Tighten line and your bleeding job is done with time and a pint of brake fluid saved. This, of course, is on jobs where the lines are not already full of air but it helps on those jobs.

—Al Henry, Floyd's Auto Sales & Service, Wintield, Kansas.

Eliminating Squeaky Brakes On Chrysler Products

To ELIMINATE squeaky brakes on Chrysler-built ears. I msert a rubber washer on each brake anchor directly behind the brake shoe. In this way I have eliminated noises from the brake system.

The washer, shown in illustration, can be cut from an old inner tube.



I have made two cutters from this job, using an old wrist pin for the small hole and a piece of pipe for the outside diameter.—Louis Miller, Rogers Sullvan, Inc. (Chrysler-Plymouth), Baltimore, Maryland.

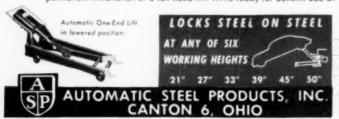
When Grounding Tail Lights

S of work to ground it properly so both bulbs will burn at the same time. Rather than remove fail light



The Automatic One-End Lift enables the operator to reach both sides of the work without crawling under the car. The usual back-breaking crouch is eliminated. The working height can be varied as the work progresses.

The Automatic One-End Lift is a sure money-maker for the great majority of car dealers, garages, paint shops and service stations. The labor time it saves pays for it over and over again. It is a splendid auxiliary greasing lift and is especially valuable for use in shops located above the ground floor, in locations where full sized lifts are impossible or difficult to install and where there is insufficient room to allow the permanent installation of a full sized lift. Write today for Bulletin 268-D.





New, Lower-Priced Hudson Pacemaker is the Dealer's Kind of a Good Deal!

 $Y^{\rm ot'LL}$ find there's a lot more to 1950 than just another new year.

You'll find a whole new market . . . new buying habits . . . new ideas about more value per dollar.

That's why the new Hudson Pacemaker is America's new sweetheart. For here's the one completely new car in the field . . . offering BIG-CAR advantages at a competitive, lower price.

Better yet, the Pacemaker offers distinctive features and plus values not found in any other make at any price, high or low. Nowhere else does the buyer find "stepdown" design, its lower center of gravity, its superb hug-the-road ride, its stability, and its unmatched roominess. There's a completely new high-compression Pacemaker engine, too, that takes off like a comet yet has saving ways.

Above all, the buyer gets design that really captures the eye—the new Pacemaker has sleek, smooth style, without meaningless bulk.

Do YOU want to sell an automobile that is right for the 1950 market in every way, and that's going like a house after right now? Then write, wire, or phone Mr. N. K. VanDerzee, Vice President in Charge of Sales, Hudson Motor Car Company, Detroit 14, Michigan, Hudson has a good deal for good dealers, and the facts prove it, Get them today.

40 YEARS OF ENGINEERING LEADERSHIP



A few of the more than 80 important of planeared by Hodon

[9]9 Fluid-Cushioned Clutch

First Super-Six, high-compression 1916 engine with compensated inherently balanced crankshaft

1926 First steel bodies built on a produc-

1925 tion basis in own manufacturer's plant 1935 Gearshift control at steering wheel

Patented Triple-Safe Brakes (hydraubic and reserve mechanical systems from same pedal, plus parking brake) Monobilt body-and-frame*, an all-

Monobilt body-and-frame", an allwelded unit with recessed floor and exclusive "step-down" design

1949 Super-matic Drive—no-shift driving, economical overdrive

Go Places with NUDSON . . . the Great Planeer!

New HUDSON for 1950

GREAT HUDSON SERIES



ONLY CARS WITH STEP DOWN DESIGN

and brackets for cleaning, I keep a supply of small metal staples handy.

When trouble occurs between fender and bracket, I use one of these staples, letting one point drive against the fender and the other straddle the rubber gasket and drive against the bracket. A light bump with hammer and sciewdriver point will cause the staple to press into the gasket where no one will notice it.

When the trouble occurs between bracket and tail light, I drill a small hole in the underside where possible and install metal series so threads will cut into both tail light and the bracket. — Glenn Williams, Woodlawn, Virginia.

Using Clutch Pilot Bearing Puller

SOMETIMES I have found it difficult to remove bushings from generator and starter commutator ends that do not have a knock-out plug.

I use a pilot bearing knocker by inserting it down in the bushing. Tighten it, grasp the end with one hand and give it two or three knocks. I find it comes out easily.—Toby Hearrean's Battery & Electric, Dallas, Texas.

Installing Needle Bearings In Chevrolet Counter Gear

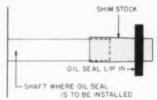
Here is an easy way to install gear of the Chevrolet three speed

Use front kingpin of Chevrolet and taper ends slightly. Leave in and then push out with regular shaft after gear is put in the case.—Raymond J. Kruer, New Albany Motor Company, New Albany, Indiana.

Installing Oil Seal With the Lip In

Here is a procedure I use when installing seals when manufacturer specifies lip of seal in:

The shim stock is rolled first. The oil seal is slipped over the oiled shim



stock. Then the shim stock is slipped over shaft and the oil scal pushed on shaft.

You will never turn a lip of oil seal back if this procedure is used. It sure does the job.—Ferrell A. Echols, Farmers Implement Company, Brownfield, Texas.

Checking Fuel Gauge On Chrysler Cars

Here is an easy way to check inoperative fuel gauges on 1949 Chrysler products:

First disconnect lead from tank unit and clip momentarily to ground of car. Dash unit should read "full plus." To check wire, disconnect coupling under dash and ground lead to dash unit.—H. D. Zinn, 320 West Elm, Olathe, Kansas.

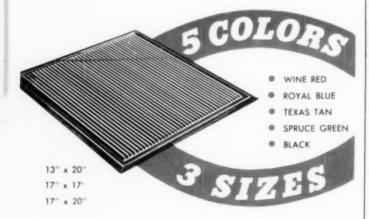
Jacking Up Front Ends With Coil Springs

Wines jacking up the front end of cars equipped with coil springs, it is hard to get the wheels clear.

To ease this problem, put a two inch block between the cross mem ber and the upper control arm. This will make the wheel come clear of

MONKEY GRIP AUTO and UTILITY MATS

Monkey Grip "Feather Flex" Mats are volume and profit builders. That's because they are just what users want . . . bright attractive colors to match auto interiors; sized for perfect fit in most cars. Quality that lasts longer, and features that are most desirable. Distributors and dealers alike find Monkey Grip Auto Mats easy and profitable to sell. Write for catalog, sales literature.



Made by the makers of BETTER MONKEY GRIP Tire and Tube Repair Materials

Catalog and sales literature of all Monkey Grip products are available. Write or wire today.

BETTER MONKEY GRIP CO.

'S SO EASY TO REBUILD CARBURETORS



\$69.75 complete

Includes the priceless Hygrade Man ual: assortment of 20 kits to repair all Chevyy Plymouth Ford carburetors; all the tools and equipment you need; cabi net; a continuing bulletin service; metal signs, outdoor banner, etc. (This outfit is easily worth \$100.00).

with the revolutionary new AND THE PROFIT ON ONLY 9 JOBS PAYS BACK YOUR ENTIRE INVESTMENT

Thanks to the newly developed Hygrade Fingertip System, you can now operate your own carburetor rebuilding department and earn \$400 or more extra per year - with only one hour's work a week (1 carburetor job.)

HERE'S HOW THE HYGRADE SYSTEM MAKES YOU AN EXPERT REBUILDER IN ONE WEEK'S TIME:



NOT JUST A NEW MANUAL, BUT A COMPLETELY **NEW SYSTEM!**

Shows you how to put your finger on the trouble spot in a matter of seconds. How to repair without disassembling

more than you absolutely have to. These clear, stepby-step instructions, arranged in sequence of as-sembly, tie in with the large exploded-view drawings and photos. The location of parts on these pictures is so easy that parts practically fall into place by themselves.

ASSEMBLIES PACKED IN SEPARATE ENVELOPES

All the parts for each assembly are packed and an me parts for each assembly are packed and labeled in separate envelopes to match the new sys-tem. You work right along with the manual — en-velope by envelope. As you finish each assembly, you automatically use up all the parts in that par-ticular envelope. You can't go wrong!

- · By selling labor instead of buying it on the outside, your profit on the average \$10.50 rebuilding job is eight dollars.
- · At this rate, you make back your entire investment from the profit on only nine rebuilt carburetors — and you still have all the tools and equipment, the manual, and more than half the kits!
- You can turn every minute of your spare time into cash. In fact, in the time it usually takes for the round trip to pick up an exchange carburetor, you can rebuild it your-
- · You insure your reputation, by making sure your customer's carburetor has been completely rebuilt with brand new parts.

ATTENTION: MECHANICS WHO ARE ALREADY REBUILDING CARBURETORS:

Did you know that you can rebuild a carburetor in 25% less time by using the new Hygrade Fingertip System? Clip the coupon; We'll tell you how.

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Send for your copy of this valuable "better business" guide. Every single detail explained. Mail the coupon on a penny post card today. It's a 1c investment that can pay you thousands of dollars in dividends. HYGRADE PRODUCTS DIVISION, STANDARD MOTOR PRODUCTS, INC. 35-37 Thirty-fifth Street Long Island City 1, New York

GENTLEMEN Rush me your Free booklet, without obligation. *

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MY JOBBER IS

------PASTE ON PINNY POST CARD-----

the floor sooner.-Buster L. Robert- Then I finish them with fine sandson, Cragford, Alabama.

When Overhauling Starter With Good Brushes

W HEN overhauling starters, I have found in several cases the brushes were good for a lot of service except for roughness due to a rough commutator.

After turning down the armature. I use a fine half-round file, one inch wide, to file the brushes with the groove so they will seat properly

paper.-Woodrow J. Cunningham, P. O. Box 327, Marsha'l, Missouri.

Replacing Light Switch On the '49 Plymouth

Being unable to obtain a back-up light switch for 1949 Plymouth and Chrysler, I used a transmission interrupter switch which fits in the plug hole on the reverse rail situated on the left side of the transmission. It worked perfectly.

Use two 14-millimeter spark-plug

gaskets as spacers between the switch and housing to give proper spacing. When transmission is shifted in reverse, the rail closes switch.

This interrupter switch is the one used on 1946-48 Chrysler transmissions to break current for down shift and is obtainable when sometimes back-up light switch is not.-Cecil R. Young, Box 289, Abbeville, South

Making Timing Marks Show Up Plainer

HERE is a timing-mark trick which works well with the light we use-a power type which flashes a bluish-white light:

On old, dull or hard-to-see marks I scratch on or near the mark with an ice pick or other sharp instrument rather than painting a mark. Be sure to get down to the new metal. When the engine is started and the light flashes, the scratches show up like neon lights -- Lynn F. Snoddy, 1622 Vivian Street, Shreveport, Louisiana.

Reading Parts Numbers Without Difficulty

HERE is a Time Saver for parts men as well as mechanics: Sometimes the names and numbers

on parts are hard to read because the small letters or numbers are worn, I rub a piece of white chalk over the numbers and then rub the excess off with a cloth. They then show up plainly. - Thomas Bushy Garage, Lawrenceburg, Tennessee.

When Repairing Cables On Windshield Wiper

BROKEN windshield wiper cable can be repaired easily provided it is not broken at a point which passes over a pulley. Just trim the ends evenly and place them in a piece of 1/8" copper tubing about one inch long.

Crimp the tubing to the cable with powerful gripping phers and a permanent repair is made. This method can also be used for shortening a stretched cable.-R. D. Hudgens, Shreveport Battery Company, Shreveport, Louisiana.

Repairing Gas Pedal Shaft on Old Cars

Here is a way I have found to repair gas pedal shaft trouble on older model Chevrolets and Buicks where a ball-and-socket joint is used to pivot the pedal:

Take an old push rod out of a



Gunk Hydro-Seal Truck and Bus cylinder head clean ing kit. Large enough to take nearly all standard assemblies. Makes purchase of cleaning tanks un-necessary for many shops.

OF CAUTION If it doesn't bear the Genuine GUNK Nameplate, it may be a partly diluted imitation — and will imitation — and will not give you the Sat ety and Advantages of Genuine GUNK and should be flatly refused

A WORD

1. Quickly digests and removes carbon gum, paint, lead, makes possible accurate visual inspection and fitting of delicate metering mechanisms, jets and orifices.

GUNK Dunk

- 2. Lasts more than one year . . . due to Hydro-Seal.
- Automatic rinsing
- 4. Works hot or cold.

Sold by better jobbers everywhere

WIDENING USE FOR LABOR SAVER

Cleans cylinder heads of carbon without scraping cleans water side of cylinder heads of insulating algae, grease, sludge and scale—thus restoring original thermal efficiency built into engine by manufacturer.



CURT!

1/4 H.P. to 10 H.P.

96 Hears

of Successful Manufacturing

Curtis Air Compressors are available as either electric or gasoline driven (electric driven portable or stationary) vertical or horizontal tank mounted.

Long the Industry's Favorite. .. Features:

- · Timken-Bearing Equipped
- · Self-Oiling
- Fully Enclosed Crankcase
- · High and Low Level Oil Gauge
- · Fan Flywheel
- Positive Unloaded Starting
- Finned Copper Intercooler · A.S.M.E. Tank — Deep Penetrating Welds



Designed specifically to permit greater accessibility and thus increase the efficiency of the mechanic.

TWO-POST SHOP LIFT

More Profits Through Greater Shop Efficiency:

- Easy "spotting" of vehicles Front end self-locating. Wheelbase scale permits
 - presetting rear supports
- Rotatable rear carriage provides 60" wheelbase range
- Safe pickup -
 - V" cut rear axle supports Multiple "V"-notched front supports
- Minimum floor space required Maximum accessibility-room for tallest man to work with ease
 - · Minimum installation cost

Also Single-Post Lifts for Passenger Cars, Single or Two-Post for Buses and Trucks.



A 300-pound stream of water HYDRAULIC CAR WASHERS Four sizes—1 to 3 H.P. can be transformed to a soft rinsing spray - merely by a twist of the nozzle.

Do The Job Better ... Faster

- · Four sizes-1 to 3 h.p.
- · Self-oiling
- · One and two-gun models
- · Precision made
- Timken-bearing equipped
- · Designed by the pioneer car washer manufacturer - 96 years of "Know How"

From a standpoint of SAFETY alone it will pay any driver to patronize the shop that uses a Curtis Hydraulic Car Washer.



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1938 Kienlen Avenue . St. Louis 20, Mo.

	KACHINERY DIVISION of Curta Manufacturing Company St. Louis 20, Missouri	A50-1
nterested in items ed below	Name	
Air Compressors	Firm.	
Auto Lifts	Street	
Fawer Car Washers	City	

Chevrolet or Buick. Grind the face on the bottom end to snap into hole in pedal. Measure the pedal and seat and bend to desired length and drill hole for cotter pin.

I have found this a very satisfactory repair.—R. S. Butdette, E & X Garage, Tokoma Park, Maryland.

Refinishing Panels On 1949 Models

W men refinishing panels on 1949 models, I have had considerable trouble removing all the greasy material from the bare metal which would result in poor adhesion.

I use to clean them with synthetic and lacquer thinners, as well as steam cleaning and using wax and grease removers. Then as a final precaution I ground them with 80-grit sanding disc.

Now I use carbon tetrachloride very generously. By picking it up while it is still wet, I have eliminated the grinding and do not have to wonder if the prime coats will stick.

Carbon tetrachloride is also good to have around a paint shop as a fire extinguisher and a fabric cleaner.— Charles D. Suead, 4315 Woodland. Kansas City, Missouri.

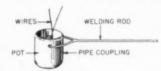
When Cleaning Corroded Battery Terminals

A BOUT six out of every ten cars which come into our shop have corroded battery terminals. To clean them, I put an ounce of sodium carbonate (washing soda) in a large-mouthed container with three gallons of water. Immerse the dirty and corroded terminals.

After five minutes the terminals should be clean. Wash them off with plain water. Now to keep clean, just coat with the lightest possible grease or oil. I have found this to be a good Time Saver.—Shadrach H. Bover, Delaware City. Delaware.

Soldering Wire Ends For Sealed-Beams

HAVE a Time Saver for soldering wire ends when installing sealed-beam lights and similar units which not of a 34" pipe coupling. I welded a small plate on one end and spot



welded two small nuts on opposite sides. I made a handle of welding rod so the pot would swing.

Put acid on the wire ends and bend down. Lift the hot pot with solder up against them in a matter of seconds. There is no solder dripping on car fenders or other objects and it makes a neat job.—Raymond Calvert, Hill Top Anto Parts, Mount Washington, Kentucky.

Making Paint to Coat Wiring Harnesses

wring harness for a hurnedout job or install headlight relays when new harnesses are not available. I coat the outside of the sections covered with friction tape with a preparation made of half a bottle of gasket shellae and black lacquer paint.

I add the paint to the half bottle of shellac and use the dauber for a brush. This mixture dries fairly rapidly, makes the wiring look new and really protects the harness.—Morton Shor, Penin Brothers, Inc. (DeSoto-Plymouth), Baltimore, Maryland.



You can multiply your PROFITS by installing National Parts & Assemblies, because they create more repair business. The unique features of National Parts prevent the need for major repairs. These low-cost, preventive repairs can be sold easily at the first sign of lubricant beakage, noise and vibration around the "U" juint, ball-housing and ball seat.

Pat No. 2,403,520 Because National Parts & Assemblies can be installed without tearing down the differential and because they save the cost of expensive replacement parts, major repairs can be sold when they might otherwise he put off indefinitely. Quicker repairs made possible by National Parts & Assemblies enable you to restore your customers' cars and trucks to their original, splendid operating condition of comparatively low cost.

DRIVE SHAFT BUSHING & SEAL ASSEMBLIES

Assembly drives over shaft flush with end of housing. New front bushing in assembly fits over the "U" joint. Sell with every transmission and "U" joint repair job.

- Provides Greater Bearing
 Surface
 - Surface

 Eliminates Oil Leaks from Transmission
 - Transmission

 Prevents Dilution of Diff
 Lubricant, Due to Trans.
 Oil Leaks
- Steps Excessive Vibration and Whipping in Drive Shaft caused by Loose Bearings.
- Enables Repair to be made with out Replacing Drive Shaft.

Now 6 Different Bushings to Fit All Models. For all Chevrolet Cars and Pickups, 1930 to 1949; Pontiuc Cars 1933 to 1936. GMC 1934-36 Pickups; and most GMC Pickups, Models 1939 to 1949.



.

DRIVE SHAFT HOUSING REPAIR UNIT K 400 Pat No. 2,405,541

Saves Buying New Drive Shaft Mousing Repairs worn drive shaft housing Prevents damage to drive shaft, "U" joint etc caused by wear Precision ground for Chev. Cars & Pick Ups, Most GMC Pick Ups.

Sold Nationally by Leading Automotive Wholesalers. Write or wire for full information.



"UNIVER SAL" TRANS MISSION CASE BALL SEAT

Soves Cost of a New Transmission Case Assembly, Keeps ball housing in line with drive shaft housing. Chev. Master 29-49 Cars; Pontiac, '33-'36; Chev. '29-'49 '5, and '4, Tan Pick Ups, Most GMC-Pick-Ups.



UNIVERSAL JOINT BALL HOUSING KITS Accurately machined, inside and out. Repairs Worn Drive Shoft Housing. Stops excessive wear & vibration between drive shoft housing, ball housing & frank case. Most Chev. Cars & Trucks, 29-49, Most GMC Pick Ubs, Pont., 33-36.

CLIP	Please Send Me Complete the National Line.	Information	About	
AND	Nome:			
MAIL	Address			5-2
COUPON	City	State		



NATIONAL MACHINE WORKS, INC.

P. O. BOY 434

AUTOMOTIVE PARTS MANUFACTURES OKLAHOMA CITY 9, OKLA



Johns-Manville jobbers now have the best there is for dealers

Results of nation-wide survey confirm new business-building features for dealers in expanded J-M Friction Materials line

This new, expanded brake lining program is the answer to a nation-wide survey conducted by Johns-Manville asking hundreds of jobbers what dealers require for 1950!

From this statement on dealers' preferences, Johns-Manville expanded its program to include: important improvements in brake and clutch products; new, attractive, sales-help literature; more local stations added to the largest radio program of any brake lining manufacturer..., and many other important, new dealer promotion features.

Among the new items in the line are Wire-Klad, an improved brake lining development with an exclusive, revolutionary new wire reinforcement. Another is the finest looking, better-performing Spiral Wound Clutch Facing, designed especially to make clutch relining easier and more profitable.

It will pay you to write Johns-Manville today, or get in touch with your Johns-Manville distributor. Get the details of this new, bigger and better Johns-Manville friction materials program for 1950... Address Johns-Manville, Box 290, New York 16, N. Y.

"Bill Henry and the News" Mutual Broadcasting System 8:55 P.M. E.S.T. Mon, thru Fri,



V Products
V Promotion
V Profits



NEW . . . WireKlad linings and Spiral Wound facings!

These two important new products star in the expanded Johns-Manwille line for 1950: WireKlad is the newest and most revolutionary development in brake lining manufacture and highly stable performance.

Spiral Wound Facings give drivers the amazing new "cushion" clutch action, plus the lowest rate of wear. They have excellent appearance, are easy and economical to install!

Johns-Manville

Asbestos

The FIRST name in asbestos brake linings

FRICTION MATERIALS



No other Agreement can match the

DODGE · PLYMOUTH

about VALUE

means talk about

DODGE

Perhaps YOU should be a DODGE Dealer!



Dodge TRIPLE PROFIT Opportunity...

For full information write E. C. Quinn, General Sales Manager, Dodge Division of Chrysler Corporation, 7900 Jos. Campau, Detroit 11, Michigan

DODGE "Job-Rated" TRUCKS

Steam Cleaning

(Continued from page 73)

a profit and not spend too much of it cleaning up the rack afterward, it is best to have a special rack for this purpose.

"The cleaner can also be used anywhere around the shop to clean floors, grease racks, benches or tools. It doesn't form rust because the metal stays hot 'til it dries and every last drop of moisture evaporates."

The cleaner is on wheels and can be moved where needed on concrete floors, though a long hose reduces the need for this. Since it weighs around 800 pounds, we find it handiest to leave it outside, behind the shop, and take the work to it. In this way it doesn't interfere with any other work going on and also leaves all the grease and sludge outside, instead of messing up the floor. You can, of course, flush the goo down the drain. But we find that by keeping the unit outside we can save this cleaning up time several times a day

"Although these cleaners have been on the market for several years, it's my opinion that only three to five per cent of southern shops use them. I'm sure that if the average owner knew how much he could save with one and how many extra profits he could make, they'd be steaming away in many more garages.

"For one thing, it's sure easier to keep good men in a shop where everything is clean and it's easier to turn out the kind of work that brings back the repeat business and the regular customer."

Langston is especially proud of the fact that he does the mechanical work for every business man in his block. These neighbors of Langston pass by the shop many times a week. The steam cleaner, which keeps both the shop and the repair work shining, is a big help in making sure each view of the shop they have makes a favorable impression.

Selling Our Service

(Continued from page 68)

gram is designed to reach the farmer. One day we stress new unit demon strations and sales, the next we stress parts and proper service.

We use road signs freely for service, placing them in the best possible locations.

We use direct-mail advertising more extensively than any other type. This is directed at prospective customers. Once a customer, he is reminded constantly by mail that we appreciate his doing business with our company.

Behind all our advertising is our public relations program. We strive to make everybody like us and to convince everyone that a stranger is a friend that we haven't met.

Our service department gets a generous slice of the advertising budget. Each service advertisement deals with one specialty item at a time—steering alignment, frame straightening, factory painting, rebuilding wrecks, motor tune-ups and similar items for the shop.

Maybe it all adds up to the reason why Hailey Motor Co. took over a run-down dealership in 1935 that had failed four times and made it into an organization that continues to grow in an agricultural community centered around a little city of 6,000.

1949 was the greatest production and sales year so far in the history of Cadillac. In building 92,554 cars during the model year the division set a new all-time high record. As a fitting climax, the one millionth Cadillac was built on November 25, 1949—the last day of production of that model by General Motors Corp.

JOBBERS OF THE SOUTHEAST:

On the opposite page is one of the many Arrow advertisements designed to:

- Drive generator and starter business into your store if you stock Arrow.
- To let your customers know dependability in generators and starters IS available.
- Advise that Arrow generators, starters and armatures are now available for immediate delivery.

1950 will be a big volume year for those jobbers who stock Arrow products.

ALL OF THIS WE CALL PROFITISING

The profit making features of this plan are explained in one easily read booklet entitled "PROFITISING WITH ARROW". Send for your copy today and start getting in on the extra sales and profits it brings.

HIRSIG

STARTERS A R R O W ARMATURES.

ARROW ARMATURES COMPANY, 15 FORDHAM RD. BOSTON 34, MASS.

Baby-Sitters Sell

(Continued from page 70)

lost a couple of sales trying to show cars to mothers with small children. The kids were crawling all over the seats, yelling and distracting the prospect and the salesman too. Nobody could sell a car under those conditions.

"And so I put the two things together and came up with baby at

At first, the only response Carr got was from women and girls wanting jobs as baby sitters. But as the idea was plugged on his spot radio programs it began to take hold. He got two or three requests a day for several weeks for baby-sitters.

Obviously, some were from parents who had no idea of buying a car, but just wanted an opportunity to get away from the children on a free ride. Others, however, were sincere, and Carr believes he can trace at least three sales to the plan, maybe others.

For baby-sitters he used his wife and the wife of a salesman, so the cost was practically politing, since he would have used the advertising space anyway with other copy. There were other reasons for his choice of habysitters, too.

"Frankly," he said, "I was afraid of the professional baby sitters. I didn't know what trouble they might get me into with somebody else's children. Our ad emphasized 'experienced sitters' and both of ours have children of their own, so we knew we were on safe ground there."

That's all there was to it. A prospect would call, ask for a babs-sitter and a demonstration. The salesman and sitter would call at an appointed time. The parent would go off with the salesman, feeling at ease, and would have to put up a lot of resistance not to buy if he or she were really interested.

"Those we served seemed to be genuinely appreciative," Carr said, "and in most cases they were people who never would have got to our lot otherwise. Most of them lived in the suburbs away from easy transportation."

Another advantage of the idea was to interest women.

"Get a woman to wanting a car, especially one with small children," Carr said, "and the sale is half made to her husband. I'd say that is one of the biggest talking points for the baby-sitting plan.

"But most of all, it created conversation. It was amusing to some, but it was a real needed service to others. It worked for me and I believe it will work for other dealers.

"If it doesn't, there's not much lost."

Mechanics Sign Mail

(Continued from page 74)

confidential chats with someone in the shop, parts department or sales room often pay greater dividends than several days of investigation.

McGarity holds a departmental meeting for some segment of his organization every week. A general meeting of all employees is held monthly. A dinner, barbecue or fish fry is held for the entire personnel six times a year.

Employees of McGarity Motors are assured courteous treatment, good pay and excellent working conditions, but one of the most important points of all, McGarity believes, is the splendid introduction they receive when they

In 1910, Fisher obtained the first large order for closed bodies when Cadillac agreed to buy 150. In 1949, Fisher built more than 2,000,000.

YOU CAN BUY A DEPENDABLE GENERATOR!!! Dependability, IS WHAT YOU GET WHEN YOU BUY ARROW SELECT QUALITY GENERATORS Because

- 1. THEY ARE PRICED RIGHT.
- 2. THEY ARE TOP QUALITY.
- 3. THEY ARE ORIGINAL TYPE UNITS.
- 4. EACH GENERATOR CONTAINS A NEWLY REWOUND ARMATURE AND NEW FIELD COILS.
- 5. THEY ARE BACKED BY A LIBERAL GUARANTEE.



Always ask for Arrow Select Quality Generators. Should you have to accept a substitute send us your name and the name of your local distributor immediately. We'll arrange with him to keep a stock of these dependable Arrow Generators available to you at all times.

STARTERS A R-R-O-WARMATURES.

ARROW ARMATURES COMPANY, 15 FORDHAM RD., BOSTON 34, MASS.

Paying a Higher Rate

(Continued from page 69)

the more customary 50 per cent also substitutes for a yearly bonus. A bonus plan, Eley feels, is madyisable in his shop for several reasons.

First, the employee must wait until the end of the year to receive his extra share of the profits, whereas he may need the money urgently during the intervening months to pay taxes, doctors bills or other pressing debts. He may have to borrow from the bank to meet these obligations and when the yearly bonus is finally received, he must turn it over to the bank or loan company without deriving as much pleasure from receiving it.

Second, the employee is apt to splurge his entire bonus when he re-

ceives it in a lump sum.

Third, bonuses mean considerable extra bookkeeping at a season when an overload of book work has been built up.

Pay checks are passed out every Tuesday. Eley adopted this plan several years ago, he said, because a few employees were inclined to throw away their earnings over the week-end or to enjoy themselves too well and show up on Monday rather the worse for wear. Paying off on Tuesday evening has eliminated this problem almost completely.

Eley realizes that an occasional break in daily notine results in a more relaxed and efficient employee. That is why he has not objected when his employees spend an occasional afternoon on a shady lake when the urge for angling becomes too strong.

"No one has abused the privilege," he said, "and we're all fishermen." A row of slender poles usually can be found leaning against the shop wall during the spring and summer months.

Eley has never conducted a sales contest, yet all of his inechanics remain constantly on the alert for new business. Each man regularly solicits his friends, neighbors and relatives and keeps an eve pecled for new carowners who move to town. A number of profitable jobs are sold every month by mechanics who contact carowners after discovering additional needed repairs on the car they are servicing.

Boiled down, Elev said he had been able to obtain these advantages by paying his men 66 2/3 per cent of labor.

1.—He is able to skim off the cream of the local crop of mechanics.

 There is less likelihood that the mechanics will accuse him of "holding out" on them.

3.—Because they make a greater percentage on each job they do, the mechanics are less inclined to rush an assignment in order to handle more work and fatten the pay checks.

4.—The extra share of the labor charge acts as a stabilizer and provides mechanics with a modest nest egg to tide them over dull periods.

"I don't believe there's a man on my payroll who would leave my employ," said Eley, who pays other members of his force above average salaries. "We're in this thing together and whenever any trouble arises, everyone comes forward to accept his share."

Some of the presses used by Morame Products Division of General Motors in the fabrication of small parts made from metal powder were originally designed to be used in making pills for medical purposes, later adapted for use in powder metallurgy.

A typical automobile manufacturer buys some 70,000 different kinds of items from 7,300 or more vendors, the AMA said recently.



CHECK THESE FEATURES:

- ✓ No set-up needed
- Any man in your shop can operate
- ✓ .001 inch accuracy obtained by light finish cut
- Exclusive "Cyclone Dust Collector"

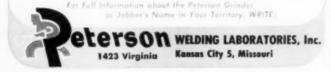
AVERAGE HEAD GROUND IN 10 MINUTES You Can Make \$18 per Hour!

The average shop will pay for the Peterson grinder in a few months from work it would normally send out. Using the Peterson Straight Edge Merchandising Plan, surrounding garages will supply enough work to make this grinder a real money maker. Not only do we claim this, we guarante it.

PETERSON -

Money Making Guarantee

Use our tested merchandising plan for 30 days. If you do not make money, return the grinder. We will pay the freight both ways.



Cadillac Changes Carburetor (Continued from page 22)

As a further means of restricting the undesirable effect of lateral motion, a wider rear spring shackle bearing has been designed. Relocation of the shock absorbers forward of the rear axle not only improves ride quality but also permits the use of five additional inches of space for the floor of the luggage compart-

A new cross member positioned ahead of the rear axle adds to frame rigidity and acts as a mounting point for a new rubber bumper that absorbs any striking of the differential, company engineers said. With out this cross member, the striking force would be against the body floor.

Brakes have been redesigned to provide greater braking capacity with light pedal pressure. In proportionbeen reduced in diameter and increased in width. This is said to to the life of brake limings. ture resistant lining is used

The V-S engine with a compresof improvements. Fuel pump valves increased for improved resistance to capor lock and better fuel delivery to the carburetor. An all metal fuel

Valve and compression atto im-

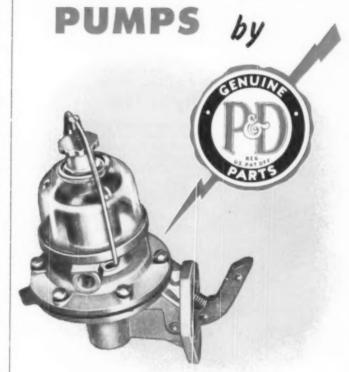
ters the spark-plug electrodes in the gas charge, allowing effective firing

Precision alignment of connecting which hores both ends of the con-A feature of the connecting rod-piston alignment is the elimination of

ism provide a further reduction in Valve-guide lubrication has been im-

A new rubber-mounted harmonic maintains closer crankshaft control

NOW...a complete line of **NEW FUEL**





Turn Out Top Notch Tune - Up Jobs with Pee Dee

• With the new P.& D. fuel pump line you give customers all the advantages of the exclusive P. & D. NYLO-PRENE® diaphragm - an outstanding engineering advance that assures longer, more trouble-free fuel pump life than ever before possible.

The complete line of P.&D. fuel pumps gives you exact-dimensional, perfect-fitting replacements for all automobile, truck, bus, marine, airplane and industrial engines. Write today for catalogs and price sheets.

MANUFACTURING COMPANY, INC. LONG ISLAND CITY S. N. Y.

Reconditioning Profits

(Continued from page 66)

The Elkes workers were all attention. In the silence they could almost hear the oil dripping from the weary, disintegrating old car.

"But," continued Elkes, "as wonderful and far-reaching as this program is, we've still got to sell it to the public. We've still got to show them what it is. It is so good that words just don't describe it. We're going to do that with this old Pontiac you see right here." It is nothing new for dealers and service establishments to paint half a car for a "before and after" demonstration of an enamel job, but this was the mere beginning of Elkes' idea.

"I want you to take this car," he said, "tape the right half of it in paper covering. Then run the left side through each of our departments. In that way we can show the public at a glance the services we offer."

The shop men started with the front bumper. The left half was replated and polished. The left side of the radiator was repaired. The left half of the engine was steam-cleaned and painted. Inside, the left half of the dashboard was restored to its original grain. The left half of the windshield was replaced. Left windows were re-channeled and new glass put in. New floor mats and trim were put in the left half. The left half of the seats were upholstered and seat covers installed. Even the left half of the trunk interior was retrimmed.

Then body dents were worked out of the "good" side, the running board restored, left wheels tightened and aligned, and new tires added.

After all this, the left half was given an "Elkes-onized" baked enamel job. From bumper to bumper nothing was left undone on the restored half-car.

All the work was done on a sparetime basis, and its only cost was for material. Shop workers took delight in turning out their jobs. They had achieved a rolling demonstration of the service in their departments.

But the public presentation of the finished product still had to be dramatized to its full worth.

"\$250 for Suggestions"

Elkes was ready for that problem with a contest. "We have an unusual car that needs a clever name," said his direct mail and newspaper advertising. \$250 for suggestions."

He urged the public to see the "half old-half renewed" car and suggest names for the \$250 in merchandise certificate awards.

The car was driven through the streets with a sign advertising not only the company's services but also a budget plan to "give old cars a completely new look for only \$12.89 monthly, or less."

Hundreds of suggestions were submitted, and among them was one that was perfect. It was "Miracar." It easily won the top prize of \$100.

But what made it so unusual was the fact that it was submitted by M. Robert Barnett, then executive director of the Florida Council for the Blind, who himself is totally blind.

Barnett explained he arrived at his winning entry by "seeing" with his hands the contrast between the old and refinished parts of the car and listening to comments of others who could visually compare the colors and materials used.

The ability of a blind man to thus appraise the demonstration was practical proof of its effectiveness.

Other proof also has been shown since the naming contest, by rising sales charts. In the first 11 months of 1949, for example, the Elkes company filled 11,460 repair orders ex-



ceeding \$300,000 in parts and service. At the end of November its gross sales for the year were over \$1,000,000 for the first time for its 15 departments and 50 employees.

"We can trace a lot of that to the 'Miracar,' " Elkes said, "and our general promotion program built around

the simple demonstration.

"That car is a real silent salesman. It visually represents all our departments. It's a picture story of the 'Elkes-onized' job, and it always draws attention wherever it goes."

And the cost?

"Nothing," said Elkes. "The car is paying us. In addition to its great promotion value, we use it every day in making our service customer contact calls. It does a marvelous selling job—all for free."

In all of Tampa it has become the familiar, practical symbol of Elkes-

onized service.

Sensational Mr. Schmitz

(Continued from page 75)

T Ford. This car comes into the arena apparently driverless. After circling the hippodrome, the car stops in the center of the tent and 13 clowns emerge—small, medium and large ones. The climax is a clown six fect four inches tall who weighs 315 pounds. Finally Chauffeur Schmitz comes out.

"I get a kick from hobbying." Schmitz said, "but, mind you, my principal hobby is my business, which I never neglect. I would say that my secondary hobby is clowning in the circus. I like to see people amused and entertained but when I get out in the circus arena, I think I'm having as much fun pushing comedy as the audience has seeing it."

In addition to his hobby of clowning, Schmitz also collects automobiles manufactured before 1915 and has built a collection of telephone directories from all over the country. He calls himself "the biggest little automobile dealer in northern Texas."

None of the performers in the circus receives any compensation for his services. The performing activities are carried on through the years with the same enthusiasin and general cooperation as some towns give to the local baseball team.

The circus has presented more than 250 performances for scores of sponsoring organizations and as benefits for philanthropic enterprises. Any profits are put back into the corporation to make the circus a better show.

It's men like Dealer Frank E. Schmitz who make that possible.

to make YOUR work EASIER, FASTER, BETTER



One way to cut customer's complaints about the high cost of repairs is to do a quality jeb in less than usual

General Glass Run Window Channel has the exclusive Connecto-Link reinforcement that prevents kinking, buckling or breaking...insures even bending to any contour. You're never held up because the channel is kinked up. Every job turns out snug-fitting, rattleproof and weather-proof.

Use General Glass Run Window Channel, Weather-strip and Division Bar Filler . . . for work that makes friends as well as mones.



900-Service Jack

The S-15 service jack with a 712 ton apacity is now available from Blackhawk Manufacturing Co., Milwaukee 1, Wis

The unit handles all vehicles within legal axle load limits of nationwide ton nage laws, the manufacturer stated. has one piece malleable non-side plates for extra rigidity and a lift of 24 1/4". A three-position handle gives full stroke at any position. All controls are at top-

901-Brake Block

A heavy duty brake block, said to clim inate brake fade under all conditions, has been amounced by World Bestos Corp.,



It is designed for New Castle, Ind.

trucks, trailers and buses.

The frictional characteristics of the



compound are so efficient that only one compound are so efficient that only me segment of Red Block, as it is called, need be used for each wheel, the manufacturer said. The remaining 55 per cent of the wheel's braking surface is equipped with long-wearing blocks built from a special compound developed to work more efficiently with Red Black.

902-Slide Hammer

A slide hammer attachment for pulling biles has been placed on the market by Owatonna Tool Co., 306 N. Ceslar

St. Owatouna, Minn. Designated No. 958, the attachment fits over the punon shaft and threads into the seal. Since the pull is against the buttress threads of the tool, the seal is easily willed pulled, the manufacturer stated. It can be used on ill models of Chrysler.

Dodge, De Soto and Plymouth cars.

903—Spring Catalog

A catalog on its line of springs has been issued by Burton Aubi Spring Coro., 2433 West 48th St., Chicago 32, Ill.



The Stab O-Load stabilizing overload



PROFIT PACKAGE FOR

Make more satisfied customers in 1950. Let Burd back up your installation know-how with the combination sets that guarantee oil control. In well-worn cylinders use Burd "Super Hi-Speed" Oil Rings. They provide a special wide-channel cast iron ring with exclusive ventilated expander to assure uniform contact over the entire cylinder wall . . . two steel segments installed below the cast ring for additional wiping action without excessive wear. Burd "Super Hi-Speeds" are available in combination sets for all make any models. Get them from your Burd jobber . . . today!

BURD PISTON RING CO. ROCKFORD, ILLINOIS



904—Fluid Dispenser

The Whiz Anto-Flo brake fluid dispenser, said to fit any standard gallon can, has been introduced by R. M. Hollingshead Corp., 540 Cooper St., Camden 2, N.

To operate, a metal suption tube is inserted in can and screwed fight. A ruliber bulb attached to the tube is sourced



several times to build up air pressure in the cam, which causes brake fluid to flow through an 8' rubber hose to reach master cylinders. A shut-off clamp in the end of the hose controls flow of fluid.

905-Piston Ring Catalog

A Ramco piston ring catalog, containing 165 pages of specifications, has been twined by Ramsey Corp., 3693 Forest



Park Blvd., St. Louis S, Mo. No. 94, as it is identified, lists a total of 8,337 piston ring applications, including 1,337 new applications.

906-Electrical Tape

Electrical tape No. 33 for motor work and other wiring jobs has been placed on the market by Minnesota Mining and Manufacturing Co., 900 Fangoner St., St. Paul 6, Minn.

Manufacturing Co., 900 Fauquier St. St. Paul 6, Muni.
The tape is listed by Underwriters Laboratories, Inc., for temperatures up to 176° F. It has a dielectric strength of over 7,000 volts, the manufacturer stated, and adheres to plastic wires. Its plastic backing is said to give it both triagliness and a rubber-like stretch of 125° per cent. Its thinness of 7 miles is said to reduce the size of the finished splice. In addition to automotive wring jobs, the tape can be used for temporary repairs of heaters and radiation hose and rubber around donors and windows.

806 Peachtree St., N. E., Atlanta 5, Ga.

NEW...



GET IT FROM YOUR JOBBER!

907-Cable Take-Up

An adjustable take-up for stretched brake cables, to be used where emergency brakes indicate too much slack, has been placed on the market by Supco Products Corp., Amityville, Long Island, N. Y. The take-ups are mounted on two-color display boards, 12 to a board.

908-Cutter

A brake drum lathe cutter with a re-placeable carbide cutting tip to reduce tool cost has been announced by Barrett Equipment Co., 21st & Cass St. Louis

The replaceable-tip cutters are engineered with exact clearance and rake



angle for use on all brake drums, whether steel or cast iron, the manufacturer stated. One cutter, twelve tips and two screws are included in a handy kit.

909-Terminals

Four numbers have been added to the Lynn "Lightning" solderless terminal line of Vaco Products Co., 315 E. Ontario, Chicago 11, Ill.

No. 3203, a smap ter-They include:

minal, for Ford, Mercury, Lincoln and other makes; No. 3105 connector for use with the snap terminal; No. 3202 ter-minal for General Motors cars and oth-ers, and its companion piece. No. 3104

910-Relining Unit

A complete unit for relining bonded brakes, containing a debonder, drill jig and multiple coverage brake lining set



No. BR8501D, has been announced by the Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.

The debonder will handle eight shoes at a time and pop off the liners in an average of six minutes, the manufacturer Average drilling time for eight holes is ten minutes, the company said

911-Spark Plug

A spark plug for marine and automo-tive engines, featuring a baffled firing chamber with five outlets, has been announced by the International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.

912—Bumper Jack

The Tripod Saf-T-Lift, a bumper jack with a tripod base for added stability, has been placed on the market by Vul can Manufacturing Co., Winona, Minn. The unit may be used to raise either

a single wheel or the entire back or front



need to block wheels or take other pre-cantionary measures to prevent rolling or tipping. The rust resistant tack can be tipping. The rust tesis folded for easy storing.



development exclusively by Shurhit . . . to allow quick precision adjustment without removing the regulator cover! A simple short turn of the external adjustment screw is all that is necessary to set the new Tru-Turn Regulator to exactly the proper voltage.

This great new feature is now offered exclusively on all Shurhit Regulators. Tru-Turn Regulators are completely guaranteed.



today.

meet a new demand by serv-

icemen . . . nothing like it

for simple, time-saving adjust-

ment. Write for full details

913-"Before-Charge" Tester

A "before-charge" battery tester which reportedly makes regular battery testing quick, convenient and portable for service stations has been announced by Willard



Storage Battery Co., Cleveland, O. Called the Willard Checkmaster, it weighs only a pound and a half. It can be taken to the car for a quick, accurate check of the battery. To assure test accheck of the battery. euracy, a top scale tells how many minu tes the car lights should be switched on to remove surface charge. It's useful also for regular checking of batteries in stock, the manufacturer reported.

914—Ignition Kits

Two pocket-size kits containing a com-plete set of tools to do all types of ignition servicing quickly and accurately on



Auto Lite, Delen and Ford distributors and voltage regulators have been a nounced KD Mfg. Co., Lancaster, Pa.

915-Lining Remover

A Hartman bonded brake hung remover, said to be suitable for use with standard brake-drum lathes, has been announced by Antomotive Division, Maine Machine Works, 1230 F. 109th St., Los Angeles 2, Calif.

A mandred is available so the unit can be used with 12" or larger machine lathes, the manufacturer stated. The remover is made for shoes that fit 9", 10", 11" and 12" drums. Other sizes are available on special order.

available on special order

916-Brake Catalog

The 1950 edition of its catalog on Wagner Lockheed brake parts, fluid and

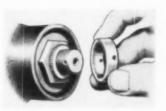
CoMaX brake lining has been issued by the Automotive Division of Wagner Flec-tric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. Catalog AU-500, as it is identified, lists shoe exchange sets and bonded lining segments among other

917-Front-Wheel Nut

The "Educated Nut." designed to give precision adjustment of front-wheel bearings on passenger cars, is now available from Bear Manufacturing Co., Rock Is land, Ill. Manufacturer of the nut is

Advance Service Co.
Consisting of two parts, the nut has \$4 points of adjustment in both pieces. the manufacturer said. The nut section

permits adjustment to be made in the usual manner. The cap slips over the nut and is lined up with the cotter-pin holes. It is kept in place by the cotter





918-Metal Rule

A push-pull rule for taking inside measurements has been announced by the Herbrand Division, Bingham Her brand Corp., Fremont, Ohio.



The base of the rule case measures 2' which is added to the length shown on blade when measuring inside lengths. Concave blade of tempered steel is said to remain stiff at full 6' length. The vertical numbers are set in black on white enamel face for easy reading

919-Polisher

The 7" Junior polisher, designed especially for intermittent service in small shops and garages, has been aunounced by The Van Dorn Electric Tool Co. Towson 4. Md

The unit weighs 8 lbs. and has a side handle and a reversible auxiliary side han-dle. There is a spindle locking pin for quick changing of bonnets and pads. The



no-load speed is 2,000 r.p.m. The polish or operates on either A. C. or D. C.

920-Spring Kits

Front spring "build-up" kits for conrentroping military selfs for con-ventional and cabover-engine models of Chevrolet and Ford 1½ for tracks have been amounced by Maremont Automo-tive Products, In., 1600 S. Ashland Ave., Chicago S. III.

The kits consist of two meet leaves and longer rebound clips, center bolt and axle U-bolts for quick installation. Rearspring kits are also available

921-Sun Visor

Model A 10 visor, made of Lucite, is now being marketed by Vision Visor Corp of America, 831 S. Wabash, Chicago 5. Ill. It is available in green, blue



and red Lucite and fits most cars and trucks, the manufacturer stated. It has stainless steel framework with side brac It has kets which brace firmly to prevent rattle

922—Shift-Knob Display

Display card No. 460°C for Chevrolet gear shift lever handle knobs is now avail-able from Champ Items, Inc., 6101 Ma-ple Ave. St. Louis 14. Mo Twelve of the polished aluminum knobs are mounted on the card. The bandles have an overall length of 4".



923-Coil Spring

A line of heavy duty coil springs and a line of extra heavy springs for rear in-

stallations on Oldsmobiles and Burks have been placed on the market by William & Harvey Rowland, Inc., Frankford, Philadelphia 24, Pa.

The heavy duty train of springs are designed to handle approximately 200 lbs overload, the manufacturer stated, and the extra beavy springs are designed to handle approximately 500 lbs overload print pair. The folial per pair. The

springs are centerless ground and individually pre-tested, as well as being short peened, a company amountement stated. They have a baked-mained finish



924—Engine Tester

A King System engine tester with a built-in spark plug tester is now being produced by

duced by The Electric Heat Control of Control Control Co. 9123 In man Avenue, Cleveland 5, Ohio, it was aunounced last month by that company

Designed for use on 6, 12 and 24 volt us untion systems. Model MT 830 operates from 50-60 cycle, 110-



925-Brake Shoe Sander

Model RSU brake shoe sander, said to remove old bonded lining rapidly, true the shoe and leave a bright, clean surface with the correct degree of roughness to assure perfect bonding of the new lining.



has been announced by Lempco Products, Inc. Bedford Ohio.

Inc., Bedford, Ohio.

It handles shoes from 8" to 18" in diameter and up to 4" wide. A coarse 16-gnt belt is used to remove the old lining, bonding rement, rust and grease. A 24-gnt belt is then used to clean and smooth the bare shoe. The unit may be used for other sanding jobs.

926-Toe Gauge

A magnetic toe gauge for macrometer checking for toe in and toe-out from the front of the wheels has been announced by J. H. Bender Equipment Co., South Gate, Calif.

Magnetic pointers snap onto the machined surface to the hub ends. The bar is set in front of the wheels and remains in front. The readings are shown on the micrometer near the right front wheel. Calibrations are in 1/64"



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191. WRITE FOR CURTIS LITERATURE ASSEMBLY KIT C-6 Gives full information in Carris Air Compressors, Curtia Car Washers, and Curtis Auto Lifts. Curtis Pneumatic Machinery Division of Curtis Mfg. Co., 1928 Kielen Avenue, St. Louis 20, Mo.

104. FACTS ABOUT SPARK PLUGS AND ENGINES. To say that spark plugs are alike loday, and that it doesn't make much difference which you luy is misstating facts. The purpose of this hookiet is to give you facts—to show you have vitally important good spark plugs are to efficient operation. Champion Spark Plug Co., 200 Upton St., Toledo 1. Ohio.

198, AMMCO "SKILL-BUILT-IN" MOTOR RECOMDITIONING TOOLS AND EQUITE-MENT Cutato principle of the property of the control of the

114. A UTO MOTIVE MAINTENANCE TOOLS New OTC Bulletin A-47 shows the easy. SAFE way to handle many automotive repair tuffies" such as pulling bearings, bearing races, fan pulleys, sale sinfas, pincion shafts, with pinions, etc., without damage. Shows meny new OTC Special Tools designed to make life more pleasant for mechanics. For a free copy, write to Owntonna. Tool Company, 889 Cedar St., Owntonna, Minn.

115. NEW 1948 ISSUE of the popular brake parts and lining catalog. Alf-300 contains specifications, data, prices, etc. This hands dealer's catalog with GNE-POINT reference to fast moving brake parts and lining for an expert brake jab, covers popular models of passenger cars and trucks. Wagner Electric Corporation, 6364 Plymouth Avenue, St. Louis 14. Missoury.

119. RAMCO SERVICE MANUAL—5th edition. Illustrated, Gives complete data on piston ring installation—also hints on locating engine trouble—causes of oil loss pitfalls of motor-overhealing and how to overome. Ramsey Corp., 3698 Forest Park Blvd., St. Louis S., Mos.

122. INSTRUCTION BOOKS and technical data on the operation of Bear automotive wheel alignment frame straightening, wheel straightening, and wheel halancing equipment. Other books and ramphiles available on the conservation methods and steering adjustments. Hear Manufacturing Company, Rock Island, III.

123. PERMATEX TOON-OYL is a scientifically developed product. It is a combination engine-carbon solvent, sindge procedulitie and film pressure-resistant. Its use produces smooth engine operation and survey protection against the formation of a nd shodge and film breakdown. Fermatex Co., 1720 Avenue Y. Brooklyn, N. Y.

126. DELCO-REMY REGULATORS A 2010 page Right lime h booklet envering the opera-

tion and maintenance of Belco-Remy regulators. (71 pictures.) Contains illustrations showing various atops of adjustment. Will help automotive electricisms understand and service regulators. Deico-Remy Service Department, Anderson, Ind.

129. CeCORD MUFFLER WALL CHART
Average wall chart giving suggested flat
rate charge on replacing mufflers and pipes,
and showing a listing of McCord mufflers and
pipes for popular ears and trucks. McCord
Corp., 2587 E. Grand Bled., Detroit 11, Mich.

133. CATALOG NO. 500L Featuring the 200 popular Champ-Items Reconditioning short cuts for all makes of cars. Champ-Items, Inc., 6100 Maple Ave., St. Louis 14, Mo.

141. THE FULL POWER STORY and Catalog of Moog X-Pius Piston Rings for motor reconditioning. Moog Piston Ring Co., St. Louis 14, Mo.

142. CATALOG NO. 45C—Automotive Cable Products by firm celebrating 25th anniversary manufacturing ignition and battery cables, wiring harness and other cable products, Andrews Mg. Co., St. Louis 14, Ma.

144. AUTOMOTIVE SERVICEMEN'S HANDY HAND BOOK — a simplified reference book for the operation, checking, tune-up and sepair of auto, trick, and tractor outries. Bord Piston Ring Company, Rockford, Ill.

149. DRIVE SHAFT BUSHING AND SEAL ASSEMBLY for all Chevrolet cars, pick-ups and most GMC pick-ups pampfalet fully describing this unit, with cut-away illustrations showing construction. Manufactured by National Machine Works, P. O. Box 4305, Oklahoma City 9, Okla.

150, VAN NORMAN CONDENSED CATA-LOG—A complete and concise manual covering all heavy duty shop equipment for the jobber shop, the independent garage shop or the ear dealer shop. Van Norman Company, Automotive and Aircraft Equipment Division Springfield 7, Mass.

161, WHIZ CATALOG NO. 42-C. Describes the complete line of Whiz Automotive Chemicals designed to make cars run better and look better. R. M. Hollingshead Corp., 816 Cooper St., Camden, New Jersey; Toronto, Canada.

184. AIRTEX FUEL PUMPS AND GASO-LINE FILTER-DAMPER—New and Rebuilt Puel Pumps, Combination Fuel and Vacuum Pumps, Repair Kite and Filter-Dampers, Catalog AXS² Airtex Automotive Division, Chefford Master Mfg. Co., Inc., Fairfield, Ill.

169. WILLARD SERVICE EQUIPMENT— Charging Equipment, Parts, Service Accessories, Service Tools, Testing Equipment WILLARD STORAGE RATTERY COMPANY, 246 E. 131st Street, Cleveland S. Ohio.

171. SUN SCIENTIFIC AUTOMOTIVE SERVICE EQUIPMENT—Containing thirty-vision and prices, history, policies, warranties and profit proving plan. Sun Electric Corp., 6323 N Avendale Ave., Chicago 31, III.

185. SERVICE MANUAL FOR THE DOC TOR OF MOTORS A comprehensive and

thorough reference book which puts special emphasis upon the diagnosis of excessive oil consumption and the proper procedure for piston ring installation. It includes special instructions to follow when working upon certain makes and models of cars, a listing and description of recommended ring tools, and an interesting informative account of the development of the modern automotive piston ring. It is a non-technical explanation of a technical subject. Perfect Circle Co., Hagerstown, Ind.

186. BATTERY SERVICE MANUAL—Prepared by Association of American Battery Manufacturers as an authentic reference and guide for everyone interested in automotive storage batteries. It is complete in its coverage of the subject and so simply written and car owners will find it easily understandable. Distributed by Auto-Lite Rattery Corporation, P. O. Box 931, Taledo, Ohio.

197. SPARK PLUGS — Specification wall chart for passenger care to 1949, with pocket containing new review of Plug-Che Indicator and data book to assist service men in diagnosing spark plug problems by comparison with plugs removed from care on service floor, Electric Auto-Life Company, Merchandising Division, Champhain & Chestnul Sts., Toledo 1, Olhio.

263. POROUS CHROME PISTON RINGS

A 4-page folder answering perfilient questions conserning Persons Chrome-the newest
development in puton rings. Kopper Company, Inc. Piston Ring Division, P. O. Box
626 Raltimore 3, Maryland.

206. NEW SUPREME LINE OF ARO LI BRICATING EQCIPMENT — An 8-page folder showing and describing many numeral features of this ultra-modern line. The Aro Equipment Corporation, Reyan, Ohio.

218. P & D GENUINE IGNITION PARTS— Citalog No. 47—Over 80 pages fully describing the complete line of starting, lighting and ignition replacement parts and coils for automobiles, trucks and busse. P & D M'st. Co., Inc. 19-92 Steinway St., Long Island City, N. Y.

222. "WHAT PRICE QUALITY"—Read how ignition parts should be made and why "WHAT PRICE QUALITY" tells the story of the making of quality ignition parts Written in non-technical language. Standard Motor Products. Inc., Long Island City 1, N. Y.

225. CONDENSED CATALOG 238 This catalog illustrates all K-D tools with a brief description of each K-D Manufacturing Co. Lancaster, Pa.

211. STEAM CLEANING A 12 page illustrated booklet describing the Oakite vapor stemofensing unit, including data on construction, engineering specifications, models, available and job applications, all factually presented in soncine form. Oakits Frankets. Ioc., 152F Thames St. New York S. N. Y.

223. NEW 26 - PAGE BLACKHAWK WRENCH CATALOG NO.247- Lists sucket, box-type and upon and weenches and sets, including new "Nuggert" double-duty drive sucket weenches. Blackhawk Mfg. Co., Mil-

215. UNITED STATES ELECTRICAL TOOLS. A complete catalog of 72 pages fully illustrated with photographs of portable, beach and floor electric tools comprising drills buffers, grinders sanders, polishers, heat gam, hole saws, serve deivers, surfacers, valve sent grinders and sate, tappers etc. United States Electrical Tool Co., 1650 Finding, Cincinnati 14. Ohio.

258. CATALOG NUMBER 17G describes mucomplete line of generator and starter motors. Complete are spelication data is included in this booklet for all passenger cars and popular tracks through 1947.—Arrow Armstures Company 15 Fordham Rout. Boston 34, Massachusetts.

254. COH, SPRINGS. Alisting of replacement cell agrings for all car models up to 1916. Ask for extange 4-P. William & Harses Rowland, Inc., Tacony & Lewis Streets Philadelptin 24, Pa.

257, RUBBER PRODUCTS A condensed catalog designed for parts reference work just released. It contains handy simplified

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identification and illustrations of floor mate, pedal pads, motor mounts, and rubber bush-ings. Anchor Rubber Products Co., 1734 Lon-don Ave., Cleveland 12, Onio.

259. RUELL PROFIT PLAN A descriptive outline of a unique merchandising plan for Buell Air Horns that offers big profits for auto, truck and bost desiers. Ruell Mg. Co., 919 West 49th Place, Chirago 9, Illinois.

260. FACTS ABOUT IGNITION CON-266. PACTS ABOUT IGNITION CON-TACTS -This besidet tells how design, nate-vials, fabrication methods and manufactur-ing previous affects the function of this virial electrical part. Many hints on the curring of ignition ills are given. Wets Eshilm Mig-Los, 242 East St., Now Haven 5, Conn.

262. OH. FILTER MERCHANDISER—Thmse
Extra Dollars and how to get them in ell
filter terries vales. All the facts on bew
Wix sales tools the Cabinet Merchandiser and Wix Director. Wix Accessories
Corp., Gartonia, N. C.

263. HAND TOOL CATALOG NO. 557. 90 callerful pages of modern Hand Tools for all phases of automotive repair and maintenance, showing the right tool or tool set for practically every job. New Britain Machine Company, New Britain, Cong.

265. MOISTS—4 page value falder showing I single unit models and dual post track hoist. Samson Mfg. Co. P. O. Hox 682, 2617 Talare St., Fream, Calif.

267. AUTOMOTIVE BEARINGS Catalog 18-CH a 14 page listing of connecting rode, can shafe and main hearings for cas-tracks and tractor engines. Johnson Bronze Co. New Castle, Pa.

270, WHAT YO' SHOULD KNOW ABOUT 270, WHAT YO' SHOULD KNOW ABOUT CHOILING SYSTEMS—What you should do be bely your audotures—the inside steep of engine steeling cooling system trouble—what to do when engine steeling steel

271. RADIATOR CORES A 22-page book contains based on the pure property of the pure property of the property of th Lake Auto Radiator Mfg Co., 5805 Euclid-Ave., Cleveland S. O.

274. BRAKE LINING BONDING A Spage bulletin compiled to satisfy the need for compilete, op-to-date information on bonding of loining to brake shows. Asbeston Mfg. Co., Dept. E. N., Hentington, Ind.

277. ELECTRICAL SWITCHES The USIS Cole Hersey line consists of automotive switches, trick and trailer connectors, accessories and miscellaneous automotive electrical equipment. Address Cole Hersey Company, 20 Old Colony Avenue, Boston 27, Mass.

279. LIQUID SOLDER USES FOR BODY 273. LIQUID SOLDER USES FOR BODY REARR—An attractive legart covelengestric for fidder describing the uses, in the Soil re-pair shop, of the new KWIK METAL subtra-Folder describes the fise-proof uses of the new metal filler that applies the party and hardens almost immediately into metal. Au-mitted Materials Company, Magow Building, Fitteburgh, Pennsylvania.

293. MICHIGAN ENGINE BEARINGS CATALOG I'B complete information on con-CATALOG GB complete information on uni-meeting rot bescheaz and craskabaft benefings. Tables list part numbers, dimensions and tolerances for all popular makes of rars and trucks. Detailed interchangeshility tables also included. Detroit Aluminum & Brass with the complete of the complete of the complete of the Michael of the complete of the comple Michigan

296. AUTOROPY TOOL CATALOG showing illustration and descriptions of the full line of Stream Line Hammers, Dellies and Massellaneous Tools, Stream Line Tools, Inc., Conneyer, N. C.

797. FREE SOLDER LITERATURE A loar page folder, "Some Properties of Saft Schlers," offered grafts Included are facts which will enable the reader to choose better the suider water to his work at hands melting point data, tables on goint attempts, sustained based values, etc. Write FEDERA TED METALS DIVISION, American Smelling and Refring Company, 120 Broadway, New York S. N. Y.

288. AIR IMPACT TOOLS—Full details and prices on these new air tools. Bulletin 812 for repactities to \$2.7 Bulletin 2006 for heavy into such as Spring 11-Boltz, tractor trends, its Chingo Preumatic Tool Co., a Eact 44th Street New York 17, N. Y.

300. THE RICHLITE MFG. CO. base available for distriction a colorful and fully illustrated 20 pages satable of exhaust deficiency rear view nutrous, inside door handles and matte other quality astrometric accessories and parts. Ritchie Mfg. Co., 2176 Indiana Avenue, Chicago 1s, Illinois.

301 BONDING VS. RIVETING. Four page builtin listing the advantages and disadvan-tages of beneding in comparison with river-ing replacement brake lining. GATKE COR. PORATION 228 North La Saile Street, Chi-

365. MICROFINISH CRANKSHAFT MA-CHINE OPERATION AND CONSTRUCTION COLOR FOLDER Developed by Sterm-Val-can Featuring the fast, efficient and read-method of operation called microfinishing Storm-Visian, Inc., 2504 Usinmeyor Street.

307. VAL-VIN-HED Attractive cutalog wheet containing information about the new VAL-VIN-HED-SILENCER designed to per-form three important functions in a motor with revenued valves and reaker arms. Si-lences take rikeling noise provides overhead laberication and protects against moisture cam-demanton. Joe L. Estes Co., Winder, Ga. 309. OH. FILTER.

demantion. Joe L. Estes Cm. Winder, Ga. 399. OH. FILTER & REFILL, RAPID REFERENCE CATALOG has exceptioned Replacement Chart which alphabetically lists makes as cars and cross-indexes makes of filters for care, strick loace and travious. Illustrates and describes Champ Multi-Serveen and Strandard Reffilm, plus rotation productional helps. Champion Laboratories, Inc., Combin. Dept., 122 (Fatrice St., Meridier, 1921).

311.—PARTS BUT FOR TRUCUT ARMA-TURE LATHE AND UNDERCUTTER— Pamphier fully describing kit containing small parts must fremently ardered for acrysicing TRUCUT LATHE, equipment, Frank N. Wood Un. 344 W. Main St., Wankenku, Wis

Wood Co., 344 W. Main St., Wankerden, Wis. 314 NEW 1956 DSNEE BRAKE PARTS CATALDIG. A hands ONE-POINT reference is fact-moving brake models agree and finding, excepting popular models agree and infinite, excepting popular models agree and actions a change aim little complete solution of the complete state of the complete state of the change aim little complete state of the change and the complete state of the change and the change in the complete state of the change in the change of the

927—Cylinders

The line of master and wheel cylinder assemblies has been expanded to cower must vehicles and full coverage of popular models is now given. Its Automotive



Corp., Middletown, Conn., amounted Cylinders are tested both during manu-facturer and after final assembly a com-

928-Window-Lift Kit

The WL 101 hose molecup kit for automatic window litts it more available from The Wastherhead Co., 300 E 13314 St. Clevelind S. Ohio.

The kit contains an assurtment of you nections to make lines to order and a generous supply of hose for servicing window lifts, folding too lifts and other hydradia lines units.

929—Battery Catalog

A 24-page buttery satalog, buttoning its simplete line of butteries for automobile.

bus, truck tractor, marine and diesel service, has been usued by the Automotive Division. Thomas A Edison, Inc., West Orange, N. J. Dealer helps, in chidage testers and charts, are described

929A-Valve Refacer

A wet valve refacer, designated VR 100, has been placed on the market by Snapon Tools Corp. Kenodia Wey. The refacer will handle all valves, in



chiding the latest types, with stems from 1747 to 11716" and face diameters up to 4", the manufacturer stated. All valve angles from 0° to 90° can be ground, with "quick set" stops for 15, 20, 30, 44, 45 and 90 degrees. Special collets grip the valve stem in two places to assure accuracy. A rocker arm attach-

929B-Frame-Contact Hoist

The FCT Frame Kontact hard, which lifts an automobile by its frame rather than by the ades, has been announced by Globe Hoist Co., Mermad Lane & Oucen St., Philadelphia 18, Pa

notact supports, each of which is attach



of to a self-weichronized hydraulic power exhibiter. The cylinders are 42" apart, one at york side of the out. There is no holster in cross member so the mechanic

531—Hood Ornament

A swan hood ornament, featuring luminated plastic wings, is now available from The Gem Manufacturing Co., 1930 S. State St., Chicago 16. Ill. It is easily



installed on all cars, the manufacturer stated, and it has a universal V shaped two stud, one piece mounting. It is available in red, green, amber and blue.

532-Cylinder-Head Studs

Cylinder-head study which are threaded

Cylinder-head studs which are threaded on both einds are now being produced by Blaisdell Manufacturing Co., 1404 Alamitos Nve., Long Beach 13, Calif.
The lower end has a 1/2" standard thread and immediately above the thread the stud reduces in size to 7/16" and continues to the upper end with that diameter. The 1/2" U.S. S. thread reduces in depth at supper end, causing the stud to tighten in the hole flush with the suffice of the block, the wonter-time. the surface of the block, the manufacturer said. Four lengths are available for the ferent car and truck models

533-Front-End Catalog

A 16-page catalog which illustrates typical front end assemblies for cars manufactured by General Motors, Chry sler, Ford, Hudson, Nash, Kaiser Frazer, Studebaker, Packard and Willys has been



issued by Chefford Master Manufacturing Co., Inc., Fairfield, III Directions for removing, replacing and adjusting suspension parts for popular cars are in-cluded. A numerical listing and an in-terchangeability chart are other features

534-Steering Wheel Puller

A universal steering wheel puller, de-

signed for use tapped for CHR SCIEWS. has been in-Owatomna Tool Co., 306 N. Cedar St., Minn. No. 015, as

pulling wheels with either two or three cap screws. It Chevrolet. Oldsmobile



Pontiac, Buick, Nash, Ford, Hudson and other makes of cars and trucks

535-Body Solder

Super Solder for automotive bodies, by Associated Producers, Inc., Detroit 20, Mich.

It does not separate or skin over in the can, the manufacturer stated, and does



not skin over while being applied, shrink peel, purhole or crack. It is said to adhere to materials used in body construction, including aluminum, stainless steel and monel metal. Querts, pints and half-

536-Dash Nut Sockets

Two sockets for use with dash units have been added to the line of Snapon Tools Corp., Kenosha, Wis. They are designated \$9460 and \$9468.



tions switches and controls on the instru-ment panel. Made especially for Chrys-len built cars, the sockets may be used on other cars, and trucks using the same type

537-Beverage Holder

A holder for cups, glasses and bottles which attaches to the dashboard of car-has been placed on the market by Warren Katz, 703 Durant Place, N. E., Atlanta,

The Car Bar, as it is called, may also be hooked over garnish mold on window



channels. When not in use, the holder swings back under dash. It is constructed of brass, chromium plated

538—Fender Guide

An illuminated heate fender gnide, said to give greater visibility on width of car in the daytime and at night, has been placed on the market by Casco Products Corp., Rindersort 2 Comp.

has been placed on the market by Caseo Products Corp.. Bridgeport 2, Conn. The streamlined chrome base honses a light bulb, the light from which travels up the transculent rod to the tip. The rod glows faintly all the way up to the tip, which is treated to concentrate and transmit a soft, glarcless light, the monity time stated. The guide can be installed by drilling a 5/16" hole in tender. Angular adjustments for the rod provide upright position on varying fender contours.

539-Rear-View Mirror

The Wyd-Vue Multi-Scopic rear view mirror, consisting of non-glare mirrors mounted in a special frame, is now available from Am-Ben Corp., 4140 Belmont Ave., Clucago 41, Ill.

Ave., Chicago 41, III.

The five sections of the mirror, mount

for my 160 degrees



cars approaching in the rear on both right and left sides. The steel frame is attached to the garnish moulding with special clamps, claimating the need for drilling. The mirror may be used on all passenger cars and station wagons, the

540—Brake Spring

A brake-drum spring, said to eliminate screeching of brakes, has been added to the line of Perfect Parts, Inc., 55 Am-sterdam Avy New York, N. Y. The springs are furnished with claps to hold

News Briefs

(Continued from page 81)

Oldsmobile "Rocket" engine with some parts of clear plastic for better visibility was split in two to give visitors an inside picture of the unit.

Models of automatic transmissions with cutaway sections were another popular feature. Factory nien were on hand to explain the different units and answer questions.

Displays were presented by Fisher Body, Chevrolet Truck, GMC Truck. Allison and Acroproducts Divisions, as well as the five passenger-car divi-sions. The new Allison T40 turboprop aircraft engine, developed for the U. S. Navy, was shown publicly for the first time. Aeroproducts' new contra-rotating propeller was also displayed.

The show used about 25,000 square feet of space in the Grand Ballroom and adjoining suites. Like the "Transportation Unlimited" show last year. which drew more than 300,000, the 1950 show was free to all visitors.

New Chevrolet Carburetor Has Concentric Bowl

CARRURETOR with a concentric float bowl is being used on all 1950 Chevrolets except cab-over-engine models. The carburetor was developed by the Rochester Products Division of General Motors Corp.

Regardless of shifts in the fuel level due to road incline or sudden stops. the fuel level is always below the nozzle spill point, reducing fuel loss and minimizing the chance of stalling, Rochester engineers said

This earburetor for 1950 Chevrolets features a concentric float howl and a ball-type check valve built into the plunger head. It is available for replacement on earlier models.



Elimination of fuel percolation is claimed to result from the design of the main well support assembly, consisting of the passageway to the nozzle, the power valve and the mam metering jet, which is surrounded and insulated by the cooler fuel in the float bowl.

A new pump plunger with a balltype cheek valve built into the plunger head allows the hot vapors in the pump system to by pass the ball and circulate into the float bowl, instead of percolating into the engine.

A continuous fuel flow is vaid to

result from the use of a common passage for both idle and main metering

Servicing features of the carbutetor include the elimination of metering adjustments, a permanent idle tube that is built into the unit and a fixedtype main metering jet to eliminate orfice wear. All main metering parts are in the cover, making it possible to service or inspect the float, the float valve assembly, the main well support assembly and the power valve assembly by the simple removal of the

NOW... a socket that



Herbrand's new Tool-of-the-Month is the trick of the year for time and trouble saving removal of slippery nuts, plugs, etc. HOLD-IT Sockets are especially good for removing drain plugs on Hudson and Chrysler where plugs fall into the inaccessible lower pan. But they're handy on any job when hands are greasy, when working in close

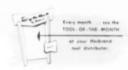
HOLD-IT Sockets have two spring-tension pins in socket wall for firm grasp. Nuts remove easily from socket with hand pressure when free of job. You'll find HOLD-IT Sockets handy for many applications . . . for added safety and greater

See your Herbrand distributor, or write us for complete details.

> JC-624 - . 6 pt \$1.25 Fits Chrysler JH-622- 6 pt \$1.25 Fits Hudson

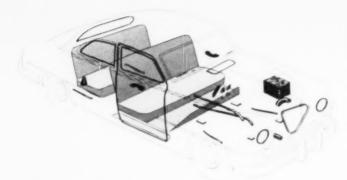
Herbrand

THE BINGHAM HERBRAND CORPORATION, FREMONT 8, UNIO *Trade Mark of the Herbrand Division, Potent applied for



Herbrand makes a complete line of hand tools, kits and cabinets for all automotive service work





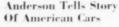
Although the steel and chrome in a modern car are most prominent to a casual observer, there's a lot of rubber in one too, as this "phantom" view from The Goodyear Tire & Rubber Co. indicates, 1950 cars contain 94 to 143 pounds of rubber, according to a recent survey by Goodyear engineers, and use 350 to 400 rubber parts, exclusive of tires and tubes. In 1925 the average car used about three pounds of rubber, besides tires and tubes. But think of the difference in the ride, the Goodyear engineers pointed out!

Sharp Is Mayor Again

Erskine Sharp, president of the Tennessee Automotive Association, was recently reelected mayor of Pulaski, Tenn. He has been mayor of the city for the last ten years.

High Point Dealers Elect Lewis

Fleet Lewis is the new president of the High Point (N. C.) Automobile Dealers Association. Fred Manddin was chosen vice-president and Clarence Coggins secretary-treasurer.



D in you know that an advertisement for a self-propelled vehicle appeared in 1805? That in 1826 there was a description in a Massachusetts newspaper of a motor car that had the mobility of the present automobile, including interchangeable gears? That the Chicago World's Fair of 1895 had an automobile show?

These are just a few interesting facts in the development of the modern car brought out in "The Story of the American Automobile," to be published this month. R. F. Anderson, editor of NADA Magazine, is the author of the book.

When he started research for the book, it was not his plan to try to discover lost birth records of the automobile, Anderson said. They revealed themselves as he searched old newspapers and magazines for automotive lore.

In addition to reports of experiments with steam, electric and gasoline cars that were buried in the past, he found pictures and announcements to prove that Americans were considering the horseless carriage as far back as the Revolutionary War.

Evidence that the gasoline motor vehicle was manufactured five years ahead of the date generally accepted is furnished by the reproduction of an ad in a national trade magazine of 1888 which has some of the earmarks of modern motor-car advertising. Anderson said. Another advertisement carries testimonals from users of a small gasoline engine that could be attached to an ordinary bicycle, developed while other experimenters were trying to apply the same principle to horseless carriages.

The book has chapters on automobile showmanship, racing, the sex appeal of the automobile, the automobile on the stage and automobile somes and mess agents.

Three Managers Go South

The Studebaker Corp. recently appointed three district managers for the South. They are R. L. Stevens for Dallas, Texas, Alfred Grynchal for Atlanta, and R. D. Skillman for Memphis, Tenn.

Raleigh Group Elects Marshall

Penn Marshall of C. C. Motor Co. was elected president of the Raleigh, N. C., Automobile Dealers Association last month. Robert Vernon of Robert Vernon, Inc., was elected secretar-treasurer of the group.



Write or Phone for Catalogue Sheets

SAMSON MANUFACTURING CO.

Kansas City Man Takes High Ford Position

T I. O'NEILL, formerly district sales manager at Kansas City, has been named manager of the new-car sales department, one of two new departments created in a revamping of Ford Motor Co's top-level management. O'Neill was for a time at Memphis, Tenn.

Under the new set-up, all sales departments under the direction of Sales Manager Walker A. Williams and L. W. Smead, assistant sales manager, have been regrouped into two divisions.

J. D. Ball has been appointed manager of product sales and service, heading one group, and F. J. McGinnis has been appointed manager of sales staff services.

In addition to the department headed by O'Neill, a sales training department under William C. Scott has also been created.

P. O. Larson, former district sales manager at Dallas, Texas, has been promoted to manager of the truck and fleet sales department, formerly beaded by Ball.

The six regional sales managers in the field will continue to report directly to Williams.

C. W. Priesing to Head Dayton Rubber Sales

CARL W. Priesing has been appointed vice-president and general sales manager of The Dayton Rubber Co., in charge of coordinating all selling and increhandising activities. He was formerly with the Ansco Division of General Amline and Film Corp. as general sales manager.

Three other vice-presidents of the company have been affected by a realignment of duties to carry out the 1950 sales program.

Irve Eashrouch, in charge of the sales, will also be responsible for associated lines, such as repair materials. Leonard C. Strobeck will direct all field selling activities for mechanical lines. Herbert S. Waters will be in charge of merchandising and preparation of products, other than tires, after they have passed the early development stage.

Emerson Heads Washington Dealer Association

W (114M) H. Emerson, president of Emerson and Orme, Inc. (Buck), was elected president of the Washington Automotive Trade Association last month.

Other officers include: A. Leftwich

Sinclair, Jr., first vice president, Fd win L. Stohlman, second vice president, L. S. Jullien, treasurer, and Fred L. Haller, secretary.

Four new directors were added to the five previously elected. Earle, O. Baker, T. A. Peake, Frank Small, Jr., and Frank G. Stewart.

Bonner Dies at Columbia

K. V. Bonner, district service manager at Columbia, S. C., for three divisions of Chrysler Corp., died to cently in Columbia.

Belfie Succeeds Tennessean In Buick Sales Position

A. II. Berrie has been appoint ad assistant general siles man ager for the eastern region of Buck Motor Division, effective March. I. He has worked in many parts of the country for Ceneral Motors Corp., including Kansas City and Washing tim, D. C.

Belfie succeeds H. J. C. Miller, a native of Memphis, Tenn., who is reaching retirement age after being with Buck since 1920.



Is profitable business passing you up because you're not equipped to take care of it?

With Hypressure Jenny you can add many "extra-profit" services to your line by doing the jobs car owners need—and want. Jenny brings new customers in, and keeps them roming back.

Hypressure Jenny will clean a car motor "like new", in 15 minutes . . . rid radiator and front-end grille work of bugs and leaves . . . cut grease, mud and road dirt from springs, frame and fenders . . prepare cars for undercoating, etc. Pay for such services averages \$10 to \$12 an hour.

With combination Hypressure Jenny and Steam Thora-Purge, you can increase your business as much as \$10,000 a year on cooling system cleaning alone.

And all the while Hypressure Jenny is making you more money it is saving you money too by keeping your equipment, lifts, floors, walls, windows, driveways, lavatories, etc. clean as a pin at only one-tenth the time and cost you now take to clean them by hand.

Don't wish for more money . . . MAKE it with Hypressure Jenny Steam Cleaner.



Service Mester
HYPRESSURE JENNY
STEAM CLEANER
with Steam Thora-Purse
mounted on cover

Get the complete story in this years present, Times Wage to Extra Practic Broth today



HOMESTEAD VALVE MANUFACTURING COMPANY

"Serving Since 1892"

P. O. BOX 99

CORAOPOLIS, PA

lobber News

Continued from page \$51

bers who want to sponsor the show should make application to the show office, 700 Insurance Building, San Antonio.

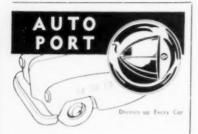
Johnson said that practically all exhibits will be staffed with topflight factory men who will be avail able to dispense product information and facts about the year's advertising and sales programs.

"In order to get the full story from each manufacturer," said Johnson,

"practically all of the progressive jobbers are taking advantage of the sales conference program by scheduling half-hour conferences with certain exhibitors. Sponsoring jobbers will have not already arranged for conferences should make their schedules with chosen manufacturers so as to be included in the schedule.

"All southwestern jobbers should take advantage of this opportunity to school their men on products being handled. Undoubtedly most of these products will be at the San Antomo

show for demonstration."



Sell the Auto-Port new dealers are selling as standard equipment.

Streamlined chrome plated brass and highly polished stainless steel Easy one screw attachment.

For hood body or tenders. Eliminates open port holes.





Sturdy unpainted, rubberized Sells everywhere for twice the cost of this wheel.

For toys, carts, wagons, trailers hundreds of users 175 Goodyear Tire

Relier or Dilite bearings You can't beat the price of this which

Dealer Prices

only 70c oilite bearings 85c roller bearings

WOOD'S
METAL STAMPING CO.
2342 Yandes St., Indianapolis, Ind.

V. B. Day to Head Tool Institute

B Day, executive vice-president of Bear Manufacturing Co., is now chairman of the executive committee of the Equipment & Tool Institute. He succeeds H. B. Barrett, president of the Barrett Equipment Co.

Other members of the committee for 1970 include: M. W. Bazner, Sr., vice president of Ammeo Took, Inc.; C. P. Brewster, sales manager of K. D. Manufacturing Co.; M. H. Potter, sales manager of Marquette Manufacturing Co.; H. D. Smith, president of Globe Horst Co.; E. P. Struct, sales manager of Lincoln Engineering Co.; G. H. Treslar, vice-president of The Black & Decker Manufacturing Co.; and Gordon R. Walker, vice president of Walker Manufacturing Co. Manufacturing Co. Manufacturing Co. Manufacturing Co.

The membership of the institute is comprised of 65 manufacturers of equipment and or tools. Lynn F. Woolman is executive manager, with headquarters in Kalamazon, Mich.

Kent-Moore Opens New Kansas City Branch

K INT MOORE Organization, Inc., has opened an enlarged region al branch office at Kansas Caty, James C. Duval is resident district manager.

Situated at 1915 Main St, the facilities include retails ales show rooms, a model service area for demonstration and instruction, warehouse space and a fleet of mobile units to assure prompt delivery in the territory.

"Our annual sales meeting for our critine sales force was held during the week between Christman and Lamuar L." T. C. Garrett, manager of the Automotive Division of The Schoellkopt Co., Dallas, Texas, reported.

Marion Bennett is an addition to the outside sales organization of Mills-Morris Co. at Jackson, Miss.



Alfred E. Keough is now sales manager of the Automotive Parts Division of Hershey Metal Products, Inc. A former president and director of Motor and Equipment Manufacturers Association, Keough is now a member of the advisory committee. He was formerly general manager of the Mobo Division of John T. Stanley Co., Inc.

Mills-Morris Has Series Of Bonus Parties

Mose than 200 employees of Mills Morris Co., Memphis, Tenn., were given bonus checks and gifts at the annual Christmas party on Dec. 23, Leo R. Jalenak, freasurer, reconted.

Similar parties were held at the Mills Morris stores in Union City and Milan, Term.; Jackson, Tupelo and Greenville, Miss: Jonesborn, Ark, and at Auto Bearings and Parts Co., Nashville, Tenn

Seven Southerners Join NSPA Ranks

Savin southern firms were recently added to the membership roll of National Standard Parts Association. They are Charlottesville Auto Parts Corp., Charlottesville, Va.; Garnett Auto Supply, Wiehita, Kan.; Moorefield Battery and Parts Co., Charlottesville, Va.; Motor Supply, Inc., Corpus Christi, Texas; Range Auto Parts, Inc., Johnson City, Tenu.; Salisbury Automotive, Inc., Salisbury, Md., and Wharton and Barnard, Milford, Del.

Franzini Sets Up Firm

Plul Franzini, seven years southwestern division manager for R. M. Hollingshead Corp., has entered business for hinself. He will headquarter at 2033 Commerce St., Dallas, Texas. Lines will be announced later. Here are the NAPA officers for 1950 (t. to r.): President Robert L. Turner of Atlanta, Vice-President J. M. Heffelfinger of Indianapolis and Henry Lansdale of Detroit, who was reelected vice-president and general manager.







Robert Turner of Atlanta Heads NAPA for 1950

Robert L. Turner, president of Genuine Parts Co., Atlanta, was elected president of the National Automotive Parts Association at the recent annual meeting. He succeeds H. A. Bradley, Jr., of Quaker City Motor Parts Co., Philadelphia, Pa.

J. M. Hetfelfinger of Bouzet Test Management Service, Indianapolis, Ind., was elected vice-president, succeeding Turner. Henry Landslae of Detroit was reelected vice-president

In addition to the identification, display and promotional material available to NAPA jubbers for many years, the 1950 program will provide such material for use in repair shops of all kinds, Lansdale said. This material will tie in directly with the association's advertising program and stress the three seasonal services of spring time up, vacation service and pre-winter change over.

Among the directors elected for 1950 is Carlyle Fraser of Gennine Parts Co., Atlanta.

Matt Korshin Heads Sales Of Fredericks Armature

M str Korshin is now general sales ture Corp., Chicago, Ill. Korshin is a charter member of National Standard Parts Association and Automotive Booster Club. He is a member of the Old-Timers and the Society of Automotive Engineers.

Expansion of the facilities at the Jersey Shore, Pa., plant was also announced by President Leonard Mervis

"We recently added the G. A. C. Manufacturing Co. line through Hein-Werner Corp.," Partner William G. Taylor at Taylor Brothers, Richmond, Va., reported.



for Fords, Lincolns, Mercurys



DEALERS, PARTS MEN, SERVICEMEN

Make Money and win Customer Goodwill, installing these Keller Precision-built Carburetor Repair Parts.

You ran give your rustomers amoning new Pep, Imposed Terrimonarie, Faster Princip, Imressed White per Gallon, by metalling Keller Presimatellith Cartageror Repair Parts. Thousands now in the observtioner agreement model.

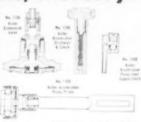
About communications of poer preferrances and free gas include its regular understone area (11) resonances feals and paid sharoff and 12. Acceleration Prince English Parce Clarch both [and part seed because of observations and from a configurated, hardward from currently, permitting (set to source part) lastices 4. Acceleration Index maps [1] Holy Clark, states a trust for open and does not allow poper assumit of fixed for acceleration flockage.

You can seemed these common causes of isofficiency with Koller Precision-built Carthurstur Repair Ports Disorders of Frest, Larrodin, Mercary dealers from count to count have built this out to their profit and to their profit and to their

Start giving your nunturners intuither, peopler, more economical performance—build your profits and customer goodwill. Send coupul for complete information or for a call by our representation.

KELLER RESEARCH CORP.

12727 STOUT ST. DETROIT 23, MICHIGAN L.



Bigatisted is a complete ford V-B set list from \$3.10 Fond first printers are List From \$5.00 Marrory, Lincoln and Jurge tracks set List From \$5.25

Keller Carlineaux Parts do not change the mixture from what F.M.27s, knows to be based—they only dop for beins, menuse the distance. Firey context the countrie require of incidences by reglacing production parts with specially expressed productions that the mark of materials that will not carriers and are not achieved to thompe due to work in the time. Seeling party give join in Morter Carlineatie—the bind a cartinology expressed mixthesid for himself.

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AEA Members Hear 1950 Sales Plans

This annual manufacturers central distributors conference of the Automotive Electric Association was scheduled for Feb. 10-17 at the Edgewater Beach Hotel in Clucago, S. W. Potter, executive secretary, announced.

The conference provides an opportunity for manufacturers to acquaint their principal distributors with new products and sales promotion plans, as well as to go over past and future publicies.

Feb. 10 and 11 was set aside exclusively for meetings of The Electric Auto-Late divisions. The animal membership meeting and meetings of the association divisions was planned Feb. 12, with the remainder of the week being devoted to meetings and conferences between manufactures members and their central distributors. Approximately 550 members are expected to attend the annual conference, Potter said

"General conditions in our territory are good," J. S. Simmons, Jt., president of Simmons Parts Co., Inc., Stanuton, Va., reported.





Wash cars without boots or apron Build Business with a

15-MINUTE CAR WASH CLEAN MOTORS & PARTS

If your jobber cannot supply you, we will send you one direct, postpaid.

D & M PRODUCTS, INC.

139 S Western Ave Las Angeles 5 Cati

Clements Dies in Roanoke

W. B. Clements, president of W. B. Clements, Inc., Roanoke, Va., died recently of a heart attack. He was 53. Clements had been engaged in the parts business in Roanoke since 1957. Before that time he was in business in Richmond.

Rothenheber Heads Region

Norman Rothenheber has been promoted to manager of Region 1 of Perfect Circle Corp., with headquarters in Philadelphia. He was formerby manager of the St. Louis territors.

The Crow-Burlingame Co. Unit of Ozburn, Crow & Yantis Co. recently held a meeting in Lattle Rock, Ark., for the No. 2 men of the branch stores. Company policies and practices were explained to the 55 attending.

Lawrence Wise of Jacks Auto Parts, Blackwell, Okla, has moved into a new home, built after his house was torn down by a tornado. Although he hopes there won't be a repeat performance, he has a solid concrete basement, ceiling and all, in case there's another windstorm.

"We were recently appointed distributor for the Bear line of front-end equipment," Ned E. Holland of Holland Auto Supply, Inc., Greenville, S. C. reported.

Dwight Feese, manager of The Motor Equipment Co., Bartlesville, Okla., has been passing out cigars recently to eclebrate the arrival of Myra Beth, his new daughter.

Cleveland Selects Texas Firm

Hirsig-Frazier Co., Inc., of Dallas, Texas, has been appointed direct factory sales representative for tire chains, tractor chains and tow chains manufactured by The Cleveland Chain & Manufacturing Co. The territory will include Texas, Oklahoma, Arkansas and Louisania.

Schoellkopf Revamps Layout

The Schoellkopf Co. of Dallas, Texas, has rearranged its automotive department on the main floor. The counter has been moved back to give a larger floor space and extended across the front for better counter service.

W. W. Jones has been added to the city sales department of Mills-Morris Co., Memphis, Tenn., and Bryant Averill has joined the counter sales force.

Billy McCulloch, city salesman for the Texarkana branch of the Crow-Burlingame Co. Unit of Ozburn, Crow & Yantis Co., was married recently to Miss Genevieve Dunham.

The Stevens-Clement Co., Charleston, S. C., recently installed a neon sign to replace a former wooden sign. The building is being repainted.

Plans are underway for a new building for Hilton Brothers Co., Fayette ville, Ark. Friends say it will be a "real layout."

J. S. Locke is now in charge of counter machine shop sales for Mills-Morris Co., Memphis. Tenn.

Shown here at the first sales conference at Spontane Manufacturing Co., steam-cleaner manufacturer of Atlanta, are (I. to r.): Seated. David C. Cody of Richmond, Va.; William F. Buchanan, secretary, and George Leo Hall, president of Spontane; Vale B. Perry of Springfield, Mass., and General Manager W. D. Cochran; standing, William H. Shirley of Mathews, N. C.; Robert M. Stone of Richmond: Spencer E. Butler of Atlanta; Luther T. Cronk of Salem, Va., and Robert H. Robertson of Atlanta.



Elaborate Program Planned For May Regional Meeting

M anatase officers of five national issuerations are scheduled to address the regional conference of the Southeast Automotive Show, to be held May 15-16 at the Biltmore Hotel in Atlanta.

These speakers and subjects which have been selected include B. W. "Whit" Ruark, general manager of Motor and Equipment Wholesalers Association, who will talk on "Manufacturer-Jobber Relations". Jack Wiggins, executive vice-president of Na



Mr. Siegal



Mr. Ger

tional Standard Parts Association, R. G. Patterson, executive vice president of Automotive Engine Rebuilders Association, who will speak on "How to Make Money Out of Your Machine Shop". A. H. Fie Idiolog, general manager of Motor and Equipment Manufacturers Association, who will discuss "National Regional Automotive Shows," and Lynn Woolman, evestive manager of Equipment and Tool Institute, whose subject will be "Special Equipment Selling."



Mr. Roberts

Several other nationally known speakers plan to address the conference. Carl R. Wippern, vice president and sales director of McQua-Norris Manufacturing Co., will discuss "General Motors' Rebate to Dealers on Wholesale Business."

The 'Get It from Your Jobber program will be presented by Walter A. Kirkpatrick, advertising and siles promotion manager of the Walkening Manufacturing Co.

Fred S. Roberts, general manager of Phelpy Roberts Corp., Washington, D. C., will talk on "Washington in the Wholesiler sees It."

After each talk there will be an open forum for jobbers to ask questions or make comments on the subjects.

Arnold J. Siegal of Britingham, Ala., president of the Southeast Automotive Shiw, will make the welcoming address and will also give details on the 1951 show, scheduled for Britingham in April, 1951.

A huncheon, social hour and banquet on the opening day will give the southeastern jobbers an opportunity for fun and fellowship.

Harry Gee of Atlanta is chairman of the program committee

Merritt Heads Clayton Sales Promotion

W 111AM O. Merritt has been appointed sales promotion manager for the Clayton Manufacturing Co. He will work with the advertising, training and primorion activities of the El Monte, Calit, firm.

Merritt was formerly with Bear Manufacturing Co., working as public relations, sales promotion and traning director

Shine On, Shine On, License Plates!

Mame's license plates will shine on the highways in 1950. They are being made with "Scotchlete," a reflective material which is said to pick up the headlights of cars 1,200 feet

The plates will be made from this material bonded to alummum and will last five years or more, with date meets to be changed annually.

State police expect the plates to reduce tear-end collisions, as well as making it easier to follow easy at pight.

Recently-elected officers of the Automotive Booster Club of South Texas, No. 30, are shown here. Front row, left to right, are Carl B. Graeely, first vice-president; E. J. Caretto, president, and S. N. Steed, second vice-president. In the back row are J. M. Ravenna, treasurer, and Franklin G. Meck, secretary.





"Er, Mr. Bosco!"

Hill Goes Back to Cherry

Hugh B. Hill has rejoined Mc Ewen Cherry Co., Nashville, Tenn., after several years' absence. He was with the company for many years prior to 1944 and is well known throughout the Southeast. "We plan to have Hill work the Florida territory, effective Feb. 1, succeeding C. E. Fuller, who will act as special sales promotion man throughout the entire territory." Partner J. McEwen Cherry and in the announcement

SEEMS EVEN CUPID KNOWS I'VE GOT SOUTHERN FIBER BLOCK



D & M Appoints Georgian

Case - Davison - Andres, 47 West Park Square, Marietta, Ga., has been appointed representative in the Southeast for D & M Products, Inc.

Ficken Goes to Georgia

H. C. Ficken is now representative for Champion Spark Plug Co. in the southern Georgia territory. He replaces W. H. Bowman, resigned.

Wylie Axford, who since the war has covered the Alabama, Missisand Tennessee area as a manufacturers' agent, has rejoined the John Bean Division as auto-motive sales manager. "Red," as he was known for many years, originally went with Bean in 1936. For a time he was territory super-visor for the United States and later he was materials expediter,



Klier Represents Burton In the Southeast

W. KLIER Co. of Atlanta has G. been appointed representative for Burton Auto Spring Corp. in Georgia, Florida, Alabama, Mississippi, Tennessee, North and South Carolina and Virginia

Five representatives will cover the territory on regularly-scheduled calls,

Walter Klier said

A complete warehouse stock of Burton leaf and coil springs has been placed with Parts Manufacturers Service at 338 Peachtree St., N.E., Atlanta, Ga.

C. A. Wagner, formerly with Burton, will cover Georgia and Florida for G. W. Klier Co.

This firm will also represent Regal Tool & Mfg. Co. in Virginia, North and South Carolina, Georgia and

Cliff Remm Forms Company

Cliff Remm, formerly with Law rence M. Hirsig and Co. of Jacksonville, Fla., and the C. Guy Keen Co. of Meridian, Miss., has formed the Cliff Remm Co., manufacturers' representatives at Jackson, Miss. The firm will cover Mississippi, Louisiana and Memphis. Tenn., from headquarters at 4663 Kings Highway, Jackson,

Barney Birdsall of Birdsall-Stephens Motor Parts, Enid, Okla., and Mrs. Birdsall recently returned from a vacation trip to the Caribbean. In addition to the usual tourist spots, they visited jobbers in the area and learned how they do business.

Purchase orders are being examined carefully and buying is being set up on a 45-day turnover basis," Manager Glen H. Day of Cornelius Motor Supply, Inc., Pampa, Texas, reported last month. "Manufacturers allowing return of obsolescent and overstocked merchandise are favored."

"General conditions in our terri-tory are fair." William G. Taylor, Jr., partner in Taylor Brothers, Rich mond, Va., reported last month.

FOR SALE - 10 KW ELECTRIC PLANT

FOR SALE — 10 KW ELECTRIC PLANT Compact unit with engine and generator in stream lined housing. Automatic centrol, push-button starting. 113–230 void; ungle phase. 60 Wilfrs gaschine engined directly by efficient with the start of the star

Callanan Becomes President Of Walker Brothers

A NTHONS M. Callanan, former vice-president and general manager, is now president of Walker Brothers, Conshohocken, Pa. He succeeds Hervey S. Walker, president of the firm since 1912, who has been elected to the new position of chair man of the board.

Callanan has been in the electrical business for 40 years and has been with Walker since 1921.

Other new officers elected at the annual meeting are: H. Newton Walker, H. vice president, C. A. Dougherty, assistant treasurer, and Rhoda M. Draver, assistant secretary.

Branson Heads Amko Sales

Harry P. Branson is now sales manager and assistant to the president of Automotive Manufacturing Co., President Nuemon Katz announced recently. Branson was formerly with Lannar Pump Co.

Williams Advances Pontius

A. C. Pontius has been advanced to assistant manager of the Automotive Tools Division of J. H. Williams & Co. He joined Williams in 1926 as an office box.

Exide Advances Norberg

Carl F. Norberg has been elected executive vice-president of The Electric Storage Battery Co. He had been vice-president in charge of manufacturing since 1944.

Road Damage from Weight Studied in Maryland

A rwo-tane stretch of reinforced concrete pavement on U. S. 301 near LaPlata, Md., may soon be used to determine the effect of heavy truck usage on highways.

The experimental roadway will be divided into two sections of 5 mile and 6 mile, making four lanes available. Each lane of each section will be subjected to axle weights of only one type.

Each truck will pass over its test lane about 500 times a day, or the equivalent of 20 years' truck use in six months, according to the Burean of Public Roads and the Highway Research Board, sponsors of the project. The tests are scheduled to begin around April 1.

Speaker Buys Amacor Line

J. W. Speaker Corp. of Milwankee, Wis., has acquired the complete Amacor line of automotive rear view mirrors and directional signals. The line was formerly manufactured by the Ajax Manufacturing Corp. of Detroit, Mich. The units will now be market ed under the tradename "Speaker-Amacor."

Rotary Lift Ups Robinson

Allan Robinson is now vice predident in charge of the Automotive Division of Rotary Lift Co., Memphis, Tenn. Robinson, who practiced law in Memphis from 1925 to 1943, had been sales manager of the Auto Lift Division since 1948.

This eye-catching billboard ad, to be used throughout the country, was one of the features of the merchandising campaign of Fram Corp. presented to distributors at a recent six-day sales meeting. Among the distributors pictured with officials of the company are: J. J. Dillon and C. H. O'Rielly of Joplin, Mo.; J. C. Rigney of Lublock, Texas; E. J. McKee of St. Louis, Mo.; O. A. Carter and H. T. Biar of Dallas, Texas; A. C. Suhren of New Orleans, La.; J. L. Stevens of Tampa, Fla.; Ira Dimmick, Sr., of Lake Charles, La.; W. Hawman of St. Joseph, Mo.; S. G. Puryar of Tubsa, Okla.; Frank Ellis of Fort Worth, Texas, and Ed Younes and Henry Parater of Washington, D. C.





"You are Safe with any product bearing the Southern Deluxe label"

Generators



DELUXE) Starter Motors

AND NOW PRESSURE ASSEMBLIES • CLUTCH PLATES FORD DISTRIBUTORS • STARTER DRIVES CARBURETORS

(FORD, CHEVROLET & PLYMOUTH) ALL carrying the SOUTHERN DE LUXE Label

> One source of supply for all of your Rebuilt items - all backed by twenty years of experience in building quality products — twenty years of integrity

Distributed exclusively through Jobbing Outlets.

HF

In having one source of supply for all your Rebuilt

YOU ARE INTERESTED

In handling Trade Marked Products sold exclusively through Jobbers

In handling quality products - competitively priced.

Write us and we will be glad to have our representative call and give you full particulars on our Exclusive Sales.

SOUTHERN ARMATURE WORKS

3645-10th Ave., North

BIRMINGHAM, ALA.

Wholesale Jobbers Only PHONE OR WIRE US COLLECT FOR WIPING CLOTHS AND WIPING WASTE





CHECKER



ALL GRADES OF WIPING AND POLISHING CLOTHS

SOUTHERN WASTE MATERIAL CO., Inc.

2817 Taylor St. Dallas 1, Texas

SAVE TEAR-DOWN A IOB



WONDER SEAL

CRACKED BLOCKS CYLINDERS VALVE PORTS



Quick Acting It works in 30 minutes, Easy to use! No special equipment or training needed Write for folder. Often imitated Never Equalled

A WONDERWELD PRODUCT MILLER MFG. CO

CAMDEN, N. J. DEPT. SA .

Index of ADVERTISERS

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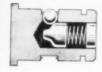
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Since 1906

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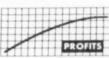
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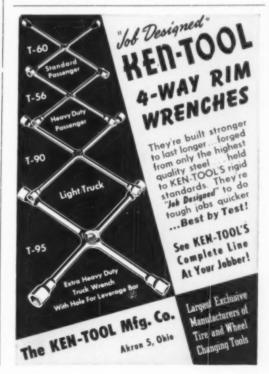


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